



01 Jan 1991

Faculty Senate Minutes 1990 - 1991

Missouri University of Science and Technology Faculty Senate

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CONSTITUTION AND BY LAWS
OF THE
UMR VOLLEYBALL CLUB

ARTICLE I: Name

Section 1: This organization will be known as the UMR Volleyball Club, and shall hereafter be referred to as the club.

Section 2: The club shall not be affiliated with the UMR athletic Department.

ARTICLE II: Objective

Section 1: To promote participation and encourage interest in Volleyball

Section 2: To play the game of volleyball not only for the enjoyment of the game itself but also for the social life, friendship, and other benefits derived from the sport.

ARTICLE III: Membership

Section 1: There shall be two classes of membership.

- a) Active membership
- b) Associate membership

Section 2: Active membership shall be open to any student currently enrolled in UMR.

Section 3: The voting body of the club shall be comprised of active members only.

Section 4: Only active members may hold offices in the club.

Section 5: Associate membership shall be open to any current faculty and/or administrator of UMR.

Section 6: Associate members will be non-voting members.

Section 7: Any member, active or associate, may be expelled from the club by a 3/4 vote of the active members.

Section 8: Reasons for expulsion shall be:

- a) Excessive unexcused absences from practices or games.
- b) Any conduct that is deemed inconsistent with the objectives of the club or the University of Missouri-Rolla.

Section 9: Any member shall have the right to state an appeal prior to the voting on his expulsion.

ARTICLE IV: Offices

Section 1: The officers of the UMR Volleyball Club shall be President, Treasurer, Secretary, and two team captains.

Section 2: It shall be the duty of the president:

- a) to preside over all meetings
- b) to insure compliance with the recommendations of the selecting committ (which may include the President, Treasurer, Secretary, and the two captains).
- c) to call special meetings
- d) to institute any policy which will aid him in best serving the club.

Section 3: It shall be th duty of the Secretary:

- a) to keep a record of the proceeding of all meetings
- b) to keep a record of attendance at the meetings and at practice
- c) to complete an up-to-date membership list
- d) to handle all official correspondence of the club

Section 4: It shall be the duty of the Treasurer:

- a) to collect all dues, membership fees, and club receipts and to deposit them in the clubs bank account
- b) to maintain accurate records concerning the financial condition of the club
- c) to pay all bona fide bills presented to the club after such bills have been approved by the president.

Attachment III.F

Section 5: It shall be the duty of the two team captains:

- a) to run all practices efficiently
- b) to control the club on the playing field
- c) to act as Sargent-at-arms at meetings
- d) to determine the tournaments or matches in which the club shall participate.

Section 6: All officers shall be elected by a simple majority vote at the second meeting of the fall semester.

Section 7: The terms of office shall run the length of one full year.

Section 8: Special elections shall be held to fill any vacancies resulting from resignation, removal from office, or disablement.

Section 9: Officers may be removed from office for failure to execute the duties of his office as stated in the constitution by a 3/4 vote of all active members.

Section 10: The officer in question will have the right to appeal his removal from office before the vote occurs.

ARTICLE V: Meetings

Section 1: The quorum for a regular meeting shall consist of 1/3 of all active members

Section 2: Meetings shall be conducted according to Robert's Rules of Order

Section 3: Meeting dates shall be designated by the President

ARTICLE VI: Adoption

Section 1: A majority vote of all active members is necessary for the adoption of the Constituion and By-Laws.

ARTICLE VII: Amendments

Section 1: Amendments to the Constitution must be passed by a 3/4 vote of all active members

Section 2: Amendments to the By-Laws must be passed by a 3/4 vote of all active members, approved by student affairs, and the academic counsel.

Section 3: Amendments to the Constitution and the By-Laws shall be proposed at regular or special meetings, and shall be voted on at the next regular meeting

ARTICLE VIII: Interpretation

Section 1: Final interpretation of the Constitution and the By-Laws shall be delegated to the President

By-Laws

ARTICLE I: Dues and Fees

Section 1: The UMR Volleyball Club is amateur in the strictest sense of the word and finances itself through its own membership and through funds made available by UMR student council.

Section 2: There will be no funds derived from the UMR athletic department.

Section 3: Membership fees shall be determined by vote of the active membership.

Section 4: Fees will be refunded to anyone not making the roster

ARTICLE II: Roster

Section 1: The Selection Committee will determine the roster

Section 2: The policy of who is to be on the roster will depend on the man's ability, payment of dues, attendance record and general interest and service to the club

ARTICLE III: Times of games and practices

Attachment IV.E

registration laws, regulations, rules of professional responsibility and standards of practice. Review of causative factors of selected failures and their relationship to professional responsibility.

CC1 3315, ME,AE&EM, Aerospace Engineering 283, Experimental Methods in Aerospace Engineering II. Approved for Winter 1991. Change in prerequisite from AE 282, AE 235, AE 253, AE 271 to AE 282, AE 251, AE 261 and AE 271. Change in description to: Laboratory investigations related to aerospace engineering. Investigations include high-speed aerodynamics, flow visualization measurements in turbulent flow, aircraft vibration and flutter, propeller acoustics, flight simulation, propulsion systems, flame measurements, and control experiments. Special experimental project.

CC1 3316, ME,AE&EM, Mechanical Engineering 344, Interdisciplinary Problems in Manufacturing Automation. Approved for Winter 1991. Addition to catalog description of: Co-list with ChE 344 and EMgt 344.

CC1 3317, ME,AE&EM, Mechanical Engineering 308, Optimal Design of Mechanical Systems. Approved new course for Winter 1991. 3 hours lecture. Prerequisites: ME 208. Description reads: Formulation of engineering design problems into standard mathematical statements; solving problems using optimization techniques; computer aided design of various mechanical systems.

CC1 3318, ME,AE&EM, Aerospace Engineering 213, Aerospace Mechanics I. Approved for Winter 1991. Change in prerequisites from EMe 160 and an average GPA of 2.0 or better in Math 8, 21, 22 and Physics 23 to EM 160 and a grade of C or better in Math 8, 21, 22 and Physics 23.

CC1 3320, ME,AE&EM, Aerospace Engineering 251, Aerospace Structures I. Approved for Winter 1991. Change in prerequisites from EMe 110 and an average academic GPA of 2.0 or better in Math 8, 21, 22 and Physics 23 to BE 110 and a grade of "C" or better in Math 8, 21, 22 and Physics 23.

CC1 3321, ME,AE&EM, Aerospace Engineering 231, Aerodynamics I. Approved for Winter 1991. Change in prerequisites from AE 161, Math 219 and a GPA of 2.0 or better in Math 8, 21, 22 and Physics 23 to AE 161, Math 219, and a grade of "C" or better in Math 8, 21, 22 and Physics 23.

CC1 3322, ME,AE&EM, Mechanical Engineering 219, Thermodynamics. Approved for Winter 1991. Change in prerequisites from Math 22, Physics 23, CSc 73, and an academic GPA of 2.00 or better in Math/Stat 8, 21, 22 and Physics 23 to CSc 73, and a grade of C or better in Math 8, 21, and 22 and in Physics 23.

CC1 3323, ME,AE&EM, Mechanical Engineering 213, Machine Dynamics. Approved for Winter 1991. Change in prerequisites from Physics 23, EMe 160 and GPA requirements to EMe 160 and a grade of "C" or better in Math 8, 21, and 22 and in Physics 23.

CC1 3324, ME,AE&EM, Mechanical Engineering 211, Linear Systems n Mechanical Engineering. Approved for Winter 1991. Change in prerequisites from Math 204, EMe 160, and GPA requirement to Math 204, EMe 160 and a course grade of "C" or better in Math 8, 21 and 22 and Physics 23.

CC1 3325, ME,AE&EM, Aerospace Engineering 282, Experimental Methods in Aerospace Engineering I. Approved for Winter 1991. Change in prerequisites

from AE 231, AE 251 to AE 231 and EE 281. Change in description reads: Introduction to experimental methods in aerodynamics, flight simulation, and aircraft structures. Drag determination for bluff and streamlined bodies, boundary layer flow measurements, aerodynamic forces and moments on airplane models. Flight simulation experiments, and structural testing of typical aircraft components.

CC1 3326, Mathematics & Statistics 000. Approved change in curriculum for Winter 1991. Present: Delete CSc 73--Basic Scientific Programming from second semester of applied mathematics curriculum. Approved change: Add CSc 53 or CSc 73 & 77 to second semester of applied mathematics curriculum.

CC1 3328, Economics 321, Finance. Approved new course for Winter 1991. 3 hours credit. Prerequisite: Econ 230, Econ 240, Statistics 115. - Description reads: This course provides a rigorous and consistent presentation of the theory of financial decisions. Capital markets are analyzed under assumptions of risk aversion and uncertainty. Models of modern portfolio theory are discussed including the CAPM and the Modigliani-Miller analysis.

CC1 3329, Chemical Engineering 344, Interdisciplinary Problems in Manufacturing Automation. Approved new course for Winter 1991. Co-list with ME 344 and EMgt 344. 2 hours lecture and 1 hour lab. Prerequisite: Senior standing and permission of instructor. Description reads: The course will cover material necessary to design a product and the fixtures required to manufacture the product. Participants will gain experience with CAD/CAM software while carrying out an actual manufacturing design project.

CC1 3330, Engineering Management 344, Interdisciplinary Problems in Manufacturing Automation. Approved for Winter 1991. Co-list with ChE and ME. Change of description reads: The course will cover the material necessary to design a product and the fixtures required to manufacture the product. Participants will gain experience with CAD/CAM software while carrying out an actual manufacturing design product.

Larry Vonalt

Larry Vonalt, Chair



UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

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MEMO TO: Academic Council

FROM: Curricula Committee

DATE: August 30, 1990

Reviewed EC1's:

EC1 276, Computer Science 401, Computer Science Formal Languages and Syntax. Approved for Fall 1990. Prerequisite: CSc 353. 3 credit hours.

EC1 277, Electrical Engineering 301, Electronic Circuit Design and Simulation. Approved for Winter 1991. Prerequisite: EE 253. 3 credit hours.

EC1 278, ME&AE&EM, Aerospace Engineering 301, Mechanics of Space Flight. Approved for Winter 1991. Prerequisite: AE 213. 3 credit hours.

EC1 279, Philosophy and Liberal Arts, Japaneses 101, Elementary Japanese I. Approved for Winter 1991. Prerequisite: None. 3 credit hours.

EC1 280, Philosophy and Liberal Arts, Chinese 101, Elementary Chinese I. Approved for Winter 1991. Prerequisite: None. 3 hours credit.

EC1 283, M&AE&EM, Mechanical Engineering 301, Geometric Modeling in Computer-Aided Design. Approved for Winter 1991. Prerequisite: ME 208. 3 credit hours.

EC1 284, Basic Engineering 101, Academic Skills for Minority. Approved for Fall 1990. Prerequisite: None. 0.5 credit hour.

Reviewed CC1's:

CC1 3291, Mechanical Engineering 344. Interdisciplinary Problems in Manufacturing Automation. Approved new course for Winter 1991. Credit hours 2 hours lecture and 1 hour lab. Prerequisites; ME 253 or approved courses in ChE or EMgt. Description reads: The course will cover material necessary to design a product and the fixtures required to manufacture the product. Participants will gain experience with CAD/CAM software while carrying out an actual manufacturing design project.

CC1 3303, Civil Engineering 341. Professional Aspects of Engineering Practice. Approved new course for Winter 1991. 3 hours lecture. Prerequisites: Senior Standing. Description reads: A study of engineering

registration laws, regulations, rules of professional responsibility and standards of practice. Review of causative factors of selected failures and their relationship to professional responsibility.

CC1 3315, ME,AE&EM, Aerospace Engineering 283, Experimental Methods in Aerospace Engineering II. Approved for Winter 1991. Change in prerequisite from AE 282, AE 235, AE 253, AE 271 to AE 282, AE 251, AE 261 and AE 271. Change in description to: Laboratory investigations related to aerospace engineering. Investigations include high-speed aerodynamics, flow visualization measurements in turbulent flow, aircraft vibration and flutter, propeller acoustics, flight simulation, propulsion systems, flame measurements, and control experiments. Special experimental project.

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Larry Vonalt

Larry Vonalt, Chair



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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UMR Faculty

A G E N D A

September 6, 1990

Academic Council Meeting, Thursday, September 13, 1990; 1:30 p.m.; G-5 H/SS.

- I. Approval of minutes of the June 14, 1990 (VOL. XIX, NO. 7) meeting.
- II. Election of 1990-91 Academic Council Officers
 - D. Vincent Roach, President
 - Jerome A. Westphal, President-Elect
 - Jim C. Pogue, Secretary
 - , Parliamentarian
- III. Reports and Responses
 - A. President's Report (10 min.) Vince Roach (4449)
 - B. Referrals
 1. Summer School Scheduling to the Public Occasions Committee
 2. Greek Life Report Review to the Student Affairs Committee
 3. Awarding of Diplomas at Commencement to the Ad Hoc Committee on Diplomas at Graduation Ceremonies (Chair - Thomas Herrick)
 4. Retention Committee Report Review to the Ad Hoc Committee for the Review of the Retention Committee Report (Chair - C. Dale Elifrits)
 5. Research Enhancement Committee Report Review to the Ad Hoc Committee for the Review of the Research Enhancement Committee Report (Chair - Randy Moss)
 6. Work Study Assignment Practices to the Student Awards and Financial Aid Committee
 - C. Chancellor's Report - Distribution of Sponsored Research Funds (20 min.) Martin Jischke (4114)
 - D. Vice-Chancellor's Report - Teaching Professorship Procedures (5 min.) John Park (4138)
- IV. Reports of Standing and Special Committees
 - A. D.6.a Academic Assessment (No Report) Robert Laudon (4466)
 1. Assessment Test Scheduling (April 26, 1990; XIX, 6; II.B.2)
 - B. D.6.c Admissions and Academic Standards (No Report) Thomas Herrick (4507)
 1. Excused Absence Procedure (May 5, 1988; XVII, 8; II.B.1)
 2. Minimum Grade Procedures (April 26, 1990; XIX, 6; II.B.3)
 - C. D.6.g Campus Safety Committee (No Report) John Carstens (4361)
 1. Hazardous Chemicals/Waste Materials Policy Draft (June 14, 1990; XIX, 7; II.B.1)
 - D. D.6.i Curricula (5 min.) ()
 - *1. Report No. 1, 1990-91
 - E. D.6.o Personnel (No Report) Vince Roach (4449)
 1. Faculty Evaluation of Department Chairs (March 29, 1990; XIX, 5; II.B.3)
 2. UM Sexual Harrassment Policy Proposal (June 14, 1990; XIX, 7; II.B.3)

- F. D.6.r Rules, Procedure and Agenda (5 min.) Lance Williams (4816)
 - 1. Standing Committee Elections
 - 2. Martin Luther King Day, 1991
- G. D.6.t Student Awards and Financial Aids (No Report) ()
 - 1. Unofficial Withdrawal Policy
June 14, 1990; XIX, 7; II.B.2)
- H. Committee on Effective Teaching (No Report) Dale Elifrits (4847)
 - 1. Student Evaluation Form Update
- I. Ad Hoc Committee on Diplomas at Graduation Ceremonies (10 min.) Thomas Herrick (4507)

V. Old Business

VI. New Business

R, P & A Cmtt.
LW/cmb/8-28-90

*Supplementary materials sent to Academic Council members and department chairmen.



UNIVERSITY OF MISSOURI-ROLLA

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VOL. XX, NO. 1
September 13, 1990

SUMMARY of the reports, actions, referrals and announcements made at the meeting of the Academic Council held on September 13, 1990.

1. Call to order.
2. Election.
 - A. 1990-91 Academic Council officers - L. Williams
3. Reports and responses.
 - A. President's report - V. Roach
(Attachment III.A)
 - B. Referrals
 1. Summer school scheduling to the Public Occasions Committee
 2. Greek life report review to the Student Affairs Committee
 3. Awarding of diplomas at commencement to the Ad Hoc Committee on Diplomas at Graduation Ceremonies
 4. Retention Committee report review to the Ad Hoc Committee for the Review of the Retention Committee Report
 5. Research Enhancement Committee report review to the Ad Hoc Committee for the Review of the Research Enhancement Committee Report
 6. Work-study assignment practices to the Student Awards and Financial Aid Committee
 - C. Chancellor's report - M. Jischke
 1. Sponsored research incentive program
 2. Ph.D. Aerospace Engineering
 3. UMR mission statement (Attachment III.C.3)
 4. Library resources
 - D. Vice Chancellor's report - J. Park
 1. Distinguished teaching professorship procedures
4. Reports of standing and special committees.
 - A. Rules, Procedure and Agenda - L. Williams
 1. Standing committee elections
 - B. Campus Safety - J. Carstens
 1. Hazardous chemicals/waste materials policy draft

- C. Ad Hoc Committee on Diplomas - T. Herrick
 - 1. Awarding diplomas at graduation ceremonies
(Attachment IV.C)
- D. Rules, Procedure and Agenda - L. Williams
 - 1. Standing committee election results
 - 2. Martin Luther King day, 1991
(Attachment IV.D.2)
- E. Curricula - L. Williams
 - 1. Report No. 1, 1990-91
 - a. Seven experimental courses presented
 - b. Five new courses approved
 - c. Eleven course/curriculum changes approved
(Attachment IV.E)

5. New business.

- A. Class/lab time frame during semesters starting in mid-week -
K. Robertson

Attachments: III.A
 III.C.3
 IV.C
 IV.D.2
 IV.E



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Academic Council

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VOL. XX, NO. 1
September 13, 1990

XX, 1 The September 13, 1990, meeting of the Academic Council was
.1 called to order at 1:36 p.m. by Prof. Donald R. Askeland,
retiring Academic Council President. The following
substitutions were recognized: Prof. Nick Tsoulfanidis for
Dean Don Warner; Prof. Gregory Gelles for Prof. Richard
Bryant; Prof. Colin Benjamin for Prof. Dan Babcock (for the
semester); Prof. Henry Gee for Prof. Max Engelhardt (for the
year); Prof. David Grow for Prof. Selden Trimble (for the
semester); and, Prof. Ken Robertson for Prof. Frank Blum
(for the year). Keith Tomasi, Chemical Engineering, and Sam
Bross, Physics, are the 1990-91 Graduate Council
representatives. Luke Peterson, Kyle Corum, Scott Maycock,
Eugene Bae and Chuck Williams represent the Student Council.
Ms. Virginia Ryle, Staff Council President, was recognized
as Staff Council's representative at this Council meeting.

XX, 1 ELECTIONS.

.2

A. 1990-91 ACADEMIC COUNCIL OFFICERS. Prof. Lance
Williams, Chair of the Rules, Procedure and Agenda
Committee, offered as nominees D. Vincent Roach for
President, Jerome A. Westphal for President-Elect, Jim
C. Pogue for Secretary and Charles C. Morris for
Parliamentarian. Prof. Glen Haddock seconded the
motion. Prof. Ray Edwards moved that nominations cease
and that the slate be elected by acclamation. Prof.
Williams seconded the motion, which was approved.

XX, 1 REPORTS AND RESPONSES.

.3

A. PRESIDENT'S REPORT. President Vincent Roach presented
Donald Askeland with a gavel as a token of appreciation
for his service as Academic Council President during the
last year.

Beginning his report, President Roach appealed for
higher attendance. The Academic Council is the "chief
legislative, policy-making body of the General Faculty,
(which) is the primary unit on campus to advise the
administrative officers about academic problems." A
minimum of meetings are scheduled so as not to
overburden representatives.

In its meeting last week, the Board of Curators
expressed its need for compiling information centrally
for administrative policy making. The plan when



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HIGHLIGHTS
ACADEMIC COUNCIL MEETING
September 13, 1990

ELECTION OF OFFICERS: The Council elected the following officers for 1990-91: D. Vincent Roach, President; Jerome Westphal, President-Elect; Jim C. Pogue, Secretary; and Charles D. Morris, Parliamentarian.

PRESIDENT'S REPORT: President Roach reported that

1. Guidelines for the award of Weldon Spring funds have been under review for several months. New guidelines will most likely include system-wide competition for monies rather than apportionment by campus. External reviewers will be used.

2. In July, the Intercampus Faculty Council addressed the following recommendation to President Magrath:

Funds necessary to accommodate unanticipated reductions in state appropriations be recovered from sources other than staff and faculty salaries.

This recommendation was prospective inasmuch as 1990-91 procedures had already been announced.

3. Students have requested that the Summer Session Schedule of Classes be made available at a date earlier than customary. The Student Council will recommend a date to the Academic Council.

4. Faculty should review the materials relating to the revised Long-Term Disability program. The deadline for certain actions regarding the revision is October 31, 1990.

CHANCELLOR'S REPORT: Chancellor Jischke reported that

1. Proposals will shortly be solicited for funds now available through the Sponsored Research Incentive Program (Indirect Cost Recovery). The deadline for proposals is November 1.

2. The Coordinating Board for Higher Education has approved the Ph.D. in Aerospace Engineering.

3. At the request of the Board of Curators, mission statements for all four campuses will contain the following information:

- a. emphasis on the special institutional character of the campus;
- b. a description of the geographical region of service;

have been indential with that of CC1 3329--the lecture/lab time frame and the prerequisite requirement was omitted by mistake.
(Attachment IV.E)

XX, 4 NEW BUSINESS.

.1

- A. CLASS/LAB TIME FRAME DURING SEMESTERS STARTING IN MID-WEEK. Prof. Ken Robertson noted the dilemma of teaching two sections of the same lab when one begins one week earlier than the other. The effect is that the labs become two separate classes with chemicals being maintained for two experiments at the same time. In the same vein, it was asserted that class attendance increases the following Monday when classes begin on a Thursday or Friday.

The meeting adjourned at 3:10 p.m.

Respectfully submitted,



Jim C. Pogue
Secretary

Attachments: III.A
III.C.3
IV.C
IV.D.2
IV.E

*Minutes of the Academic Council Meeting are considered official notification and documentation of actions approved.

faculty and for handling grade changes by the Registrar's office, Prof. Thomas Herrick moved for approval of the Committee recommendation to suspend the awarding of degrees at commencement and the requirement for assignment of a minimum grade. This policy will be monitored for acceptance by student, parent, faculty and staff. Council action on final examination/grade policy as well as this Committee's final recommendation will be reviewed in September 1991. The motion was seconded and approved.

Prof. Herrick as a final point indicated that the Committee's final action is only a recommendation to Chancellor Jischke. (Attachment IV.C)

D. RULES, PROCEDURE AND AGENDA.

1. STANDING COMMITTEE ELECTION RESULTS. Prof. Williams reported that Profs. Orrin Crosser, Carol Ann Smith, Richard Hall, Otto Hill and David Oglesby were elected to the Grievance Hearing Panel.

A clear majority was not obtained during balloting for the Campus Exigency Committee election. Prof. Williams proposed that a run-off election be conducted between Profs. John Sheffield, Kenneth Oster, and James Johnson in the School of Engineering and Profs. Jim Pogue, Tom Ingram, and Wayne Bledsoe in the College of Arts and Sciences. Prof. Haddock moved to elect according to the largest number of votes. Prof. Williams seconded the motion, which carried. Profs. Sheffield and Pogue, in addition to Prof. Barr, were elected to the Committee.

2. MARTIN LUTHER KING DAY, 1991. Prof. Williams moved to approve the resolution to observe this holiday on January 21, 1991, and to change the first day of classes from Thursday, January 10, to Wednesday, January 9, 1991. Prof. Lance Haynes seconded the motion, and the motion passed.
(Attachment IV.D.2)

E. CURRICULA.

1. REPORT NO. 1, 1990-91. Prof. Williams moved for acceptance of the EC1 report. The motion was seconded and passed. Prof. Williams moved for approval of the presented CC1 report. Prof. Jerry Westphal seconded the motion, which carried. A clerical problem was noted in CC1 3330. As a co-listed course, the wording of CC1 3330 should

Prof. Glen Haddock moved to close nominations and Prof. Williams was elected by Council.

Prof. Williams presented the slate of nominees for election by the Council to the Grievance Hearing Panel and the Campus Exigency Committee. Prof. Williams moved to elect Prof. David Barr, Mines and Metallurgy, to the Campus Exigency Committee (only one was nominated from this school). Prof. Edwards seconded the motion. The Council voted to elect Prof. Barr by acclamation. Prof. Edwards moved that, in the event of a tie during balloting, the winner be selected by a toss of a coin. Prof. Williams seconded the motion, which passed.

B. CAMPUS SAFETY.

1. HAZARDOUS CHEMICALS/WASTE MATERIALS POLICY DRAFT. Prof. John Carstens briefly reported on the Committee's progress on this topic. The Committee agrees as a whole that it is indeed the responsibility of the individual employee to act in accordance with EPA and other regulations to minimize hazards; and that it is important and essential that employees be informed, most likely by environmental health risk management, of the hazards of handling materials and of the EPA regulations that apply to their storage and disposal. The Committee suggestion was to use short courses.

Faculty input with respect to the policy draft suggests uncertainty as to (1) when the researcher's responsibility ends and the administrative unit's begins; (2) lacking clarity of who is responsible when disagreements are handled--how and by whom (faculty suggestion--an appeal body); and (3) who foots the fine for infringement of regulations and what if a department is overwhelmed by the amount.

Since Vice Chancellor Neil Smith agreed to wait for Council consideration at their September meeting before program implementation, President Roach was asked by Prof. Donald Askeland to solicit an extension in order to allow Council action at the October meeting.

C. AD HOC COMMITTEE ON DIPLOMAS.

1. AWARDING DIPLOMAS AT GRADUATION CEREMONIES. To avoid in the future a minimum grade of "F" on the Monday prior to Commencement and to allow for adequate time for final examination grading by

demonstrate the "sustained performance of a mature individual." As required, supporting documentation will include but will not be limited to: an extended resume; a letter of justification; a recommendation; references from external sources; documentation from teaching evaluations; descriptions of teaching awards and other teaching related honors; letters of support from peers/alumni; information pertaining to service activities; and a self-evaluation indicating purpose/goals, techniques, accomplishments, et cetera.

Distinguished teaching professorship appointments will be periodically reviewed--annually by Department Chairs and Deans and formally by the Vice-Chancellor for Academic Affairs five years after appointment.

Per recommendation of the Ad Hoc Committee, these procedures are to be ratified by the Board of Curators. If consensus indicates approval, Vice Chancellor Park indicated intent to put the program in place by the December graduation ceremonies.

Vice Chancellor Park with Profs. Bill Andrews, Lenoard Koederitz, Jack Ridley, Bob Wolf, Jerry Bayless, Tom O'Keefe and Dee Haemmerlie formed the Ad Hoc Committee which developed these proposed guidelines.

REPORTS OF STANDING AND SPECIAL COMMITTEES.

A. RULES, PROCEDURE AND AGENDA.

1. STANDING COMMITTEE ELECTIONS. Prof. Lance Williams moved the Agenda to allow time for the election process, and President Roach agreed. Prof. Williams indicated the need to replace Prof. Frank Blum, the Council's elected representative on the Personnel Committee, for this year and nominated Prof. Donald Cronin. A second was received from the floor. Prof. Ray Edwards moved that nominations cease and Prof. Cronin be elected by acclamation. Prof. Williams seconded this motion, which carried.

Prof. Williams reported that the Council needed a semester long replacement for Prof. Selden Trimble, who was elected by Council to the Curricula Committee. Prof. Williams requested nominations from the floor, and Prof. Donald Askeland nominated Prof. Lance Williams. The nomination was seconded.

4. LIBRARY RESOURCES. In the aggregate, UMR's Expense and Equipment fund grew by two and a half percent last year. One and a half percent was distributed uniformly and one percent was targeted for under-funded campus divisions.

In response to President Roach's inquiry, Chancellor Jischke reported that the rate of inflation on periodicals is 20 to 30 percent, and therefore, the modest resources available to the Library are not adequate to subscribe to all journals. In addition, as journal subscriptions decrease, publishers increase prices in compensation resulting in a never-ending spiral. The decision to reduce actively-used journal subscriptions to any great extent is not easy and has not yet been made; but it is seemingly inevitable.

Interlibrary loan and periodical coordination among all four UM campuses has been emphasized in the last two years and expanded coordination among all Missouri research universities is being sought.

D. VICE CHANCELLOR'S REPORT.

1. DISTINGUISHED TEACHING PROFESSORSHIP PROCEDURES. The program, which received budgetary support, was one of several proposals to improve teaching and is part of a national trend emphasizing improvement of teaching quality.

The purpose of the program, as described by Vice Chancellor Park, is to recognize high-quality, exemplary teaching in the same way as Curator Professorships recognize top research effort and contribution. The proposed professorship will be fully integrated with the university structure in a like manner as the Curator professorships, and individuals will be expected to carry a campus-wide responsibility for leadership in teaching improvement.

Individuals chosen for this distinction will be nominated at the departmental level and screened by the Academic Deans. No more than two nominees will be submitted to a campus-wide advisory committee, which will in turn submit their recommendation(s) to Chancellor Jischke for final decision. Those nominated must exemplify truly effective teaching, be actively engaged in scholarship, contribute a significant level of service to the University and

6. WORK-STUDY ASSIGNMENT PRACTICES to the Student Awards and Financial Aid Committee.

C. CHANCELLOR'S REPORT. Chancellor Martin Jischke extended his congratulations and admiration to Prof. Donald Askeland for his work as 1989-90 Academic Council President.

1. SPONSORED RESEARCH INCENTIVE PROGRAM. This program, which was initiated two years ago, provides for distribution (one-half to a research equipment fund, three-eighths to principal investigators, and one-eighth each to department heads and deans) of funds above this year's targeted baseline of \$1,350,000. Chancellor Jischke reported that this year, it was possible to distribute \$143,270. \$53,800 was apportioned among 60 to 70 principal investigators, approximately \$9,000 each to the deans and various department heads and \$71,506 to the research equipment fund. Proposals for research equipment bought through this fund may be submitted in department offices. All proposals will be channelled through your Dean's office and will eventually be remitted to the Vice Chancellor for Academic Affairs. There is a November 1 deadline.
2. PH. D. AEROSPACE ENGINEERING. Chancellor Jischke reported that the Coordinating Board for Higher Education (CBHE) has approved UMR's request for this degree. However, new CBHE policy requires a subsequent meeting after degree approval in order to discuss performance criteria which will be used five years into the future.
3. UMR MISSION STATEMENT. Revision was requested in order to (1) emphasize special institutional characteristics; (2) designate our geographic region of service; (3) state our institutional governance/management; and (4) include statement of academic freedom and other fundamental issues. Chancellor Jischke presented the proposed draft and reported that it was due for review by administration by the end of the month. By a straw vote, Council suggested the pluralization of the word "Council" in connection with student governance thereby allowing for recognition in the document of the Council for Graduate Students. (Attachment III.C.3)

implemented will be in addition to information collection currently done by each campus. Concerns have been voiced by the Faculty Chairs (in writing--see attached). We can only ask, "What format will it take?"

The Task Force reported last spring on the Weldon Springs Competition. The Vice President for Academic Affairs this August solicited suggestions/comments on the Task Force recommendations. As of August 22, the general officers are in discussion. The major changes are that (1) money will be granted through system-wide competition; and (2) the Weldon Spring Review Committee will consist of outside consultants as well as faculty.

Following Governor Ashcroft's veto and after subsequent reallocation of funds, the ICFC drafted/remitted a letter of resolution to President Magrath resolving that "in the future, funds necessary to accommodate unanticipated reductions in state appropriations be recovered from sources other than faculty/staff salaries."

In other business, President Roach mentioned the need to revise UMR's By-Laws--particularly the section concerning Dean search procedures (suggestion contained in the March 19, 1990, minutes); Student Council's aim to recommend that the summer schedule of courses be circulated earlier; and Phyllis McCoy's reminder to all interested parties to inquire about the recent changes in the long-term disability program. (Attachment III.A)

B. REFERRALS.

1. SUMMER SCHOOL SCHEDULING to the Public Occasions Committee.
2. GREEK LIFE REPORT REVIEW to the Student Affairs Committee.
3. AWARDING OF DIPLOMAS AT COMMENCEMENT to the Ad Hoc Committee on Diplomas at Graduation Ceremonies.
4. RETENTION COMMITTEE REPORT REVIEW to the Ad Hoc Committee for the Review of the Retention Committee Report.
5. RESEARCH ENHANCEMENT COMMITTEE REPORT REVIEW to the Ad Hoc Committee for the Review of the Research Enhancement Committee Report.

- c. reference to institutional governance and managements;
- d. a statement of commitment to Academic Freedom for faculty and students.

Copies of the revised UMR mission statement will be circulated.

LIBRARY RESOURCES: In response to a question, Chancellor Jischke stated that funding for journal acquisitions is simply not adequate, especially given the tremendous inflationary costs of journals. Although no decision has been made regarding a solution, the library staff is preparing a list of journals to be cancelled. These "cuts" could be real, that is, they could include journals currently in use. A list of these journals will soon be made available to department chairs.

DISTINGUISHED TEACHING PROFESSOR PROGRAM: Vice-Chancellor Park reviewed the purpose, criteria, nomination process, and review process for this program. If time permits, the first appointments will be announced at the December commencement.

CURRICULA COMMITTEE: The Council approved Curricula Committee Report No. 1, 1990-91.

DIPLOMAS AT GRADUATION: Professor Herrick reported the recommendations of the Ad Hoc Committee on Awarding Diplomas at Commencement. The recommendations, which follow, were approved by the Council:

1. Suspend the awarding of diplomas at commencement and the requirement of a minimum grade for Fall 1990 and Winter 1991.
2. Assign a committee to monitor the acceptance of this procedure by students, parents, faculty and staff, and any others interested.
3. If the Council approves a final examination/grade policy for graduating seniors that significantly advances the date on which final grades are reported to the Registrar, the Committee should prepare proposals for the Council that would allow the students to receive their diplomas at commencement.
4. The Committee should present a report to the Academic Council in September of 1991 recommending a final course of action.

CALENDAR REVISION, 1990-91: The Council approved the following resolution regarding the 1990-91 Calendar for recommendation to the Chancellor:

Resolved, that the Winter Semester 1991 calendar be changed by moving the first day of classes from Thursday, January 10, 1991, to Wednesday, January 9, 1991, and that classes be dismissed on Monday, January 21, 1991, Martin Luther King Holiday.



UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council
FROM: Curricula Committee
DATE: September 20, 1990

EC1's Reviewed:

EC1 285-WS91-5000-301, Physics 301, Introduction to General Relativity. Approved for Winter 1991 with the stipulation that a prerequisite be added to the form. The department was notified and prerequisite Math 204 was added. 3 hours credit.

EC1 286-WS91-1430-401, Computer Science 401, Object-Oriented Database Systems. Approved for Winter 1991. 3 hours credit. Prerequisite: Object Oriented Programming and CSci 304.

EC1 287-FS91-3860-301, ME&AE&EM, ME 301, Introduction to Intelligent Manufacturing Systems. Approved for Winter 1991. 3 hours credit. Prerequisite: ME 253. Semester in which this course will be offered was changed from Fall 1991 to Winter 1991. Robert Medrow requested the correction.

EC1 288-WS91-1230-301, Chemical Engineering 301, Cathodic Protection. Approved for Winter 1991. 3 hours credit. Prerequisite: Chem 243.

EC1 289-WS91-3840-101, Mathematics 101, Fundamentals of Algebra. Approved for Winter 1991. 3 hours credit. Prerequisite: None.

EC1 290-WS91-1430-401, Computer Science 401, AI-Machine Learning. Approved for Winter 1991. 3 hours credit. Prerequisites: CSc 347, Stat. 215.

EC1 291-WS91-1970-201, Electrical Engineering 201, Controllers for Factory Automation. Approved for Winter 1991. 3 hours credit. Prerequisite: None.

EC1 292-WS91-2070-401, Engineering Management 401, Technology and Manufacturing Strategy. Approved for Winter 1991. 3 hours credit. Prerequisite: None.

EC1 293-WS91-3860-301, Mechanical Engineering 301, Design for Manufacture. Approved for Winter 1991. 3 hours credit. Prerequisites: ME 208, ME 253.

EC1 294-WS91-1430-401, Computer Science 401, Algorithmics II. Approved for Winter 1991. 3 hours credit. Prerequisite: CSc 355.

EC1 295-WS91-3840-201, Mathematics 201, Introduction to Discrete Mathematics. Approved for Winter 1991. 3 hours credit. Prerequisite: Math 21. (Consent of instructor was deleted as prerequisite).


EC1 296-WS91-3840-401, Mathematics 401, Math Logic. Approved for Winter 1991. 3 hours credit. Prerequisite: Introduction to Math Logic.

EC1 297-JA91-3060-201ML, History 201ML, A Medieval Window: The Gothic Cathedral. Approved for Inter-session 1990. 2 hours credit. Prerequisite: None.

The committee requests a CCl be submitted for all Missouri London courses exceeding the two semester limit.

EC1 298-WS91-1430-401, Computer Science 401, Math Logic. Approved for Winter 1991. 3 hours credit. Prerequisite: Introduction to Math Logic. (Prerequisite was added).

Joseph Newkirk was nominated and elected as the new Curricula Committee Chairman for a two year term effective Fall 1990.



Joseph Newkirk, Chair



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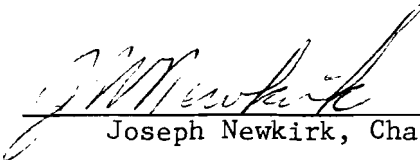
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Joseph Newkirk, Chair



UNIVERSITY OF MISSOURI-COLUMBIA

9-10-90

Dr. C. Peter Magrath
President
The University of Missouri
University Hall
Columbia, MO 65211

Dear Peter:

We write to express our grave concerns about the proposed administrative information/decision support system (the Database !) which we understand is to be implemented soon by your staff. We understand the need for such a system and your needs to be able to respond to the many requests for information that you receive almost daily.

However, our concerns are about the lack of definitive questions to be asked of the system, the real possibility of misinterpretation of the output of the system and the almost certainty of unreliable collection of data if done at University Hall and not at the individual campuses. Our faculties are most disturbed about the lack of proximity of data collection to the various campuses and about the potential misuse of the data.

Since we do agree that some sort of uniformity of data is mandatory, we call upon you to establish a group of faculty familiar with data collection, storage and interpretation and a group of staff who regularly deal with data at the campuses to work together to bring such a system to reality. We believe that this would save money in these tight fiscal times and would assure faculty and staff that the data would be reliable and reflective of what they do. Such data collected from the campuses in such a manner would also give you confidence in it as you turn it over to many varied groups for many varied purposes. We hope you'll agree to discuss this matter with us before any steps toward implementation are taken. We suggest that the next IFC meeting might be the best opportunity to begin.

Sincerely,

Allen W. Hahn
UMC

D. Vincent Roach
UMR

Lawrence D. Friedman
UMSL

Frank D. Popp
UMKC

cc: the Chancellors
R. Wallace

UNIVERSITY OF MISSOURI-ROLLA

MISSION STATEMENT

The University of Missouri-Rolla, established in 1870 as the University of Missouri School of Mines and Metallurgy, serves as Missouri's leading engineering and technological university. ~~A technological university of national distinction.~~ The University of Missouri-Rolla is committed to its historic land-grant missions of teaching, research, and public service in behalf of all the citizens of Missouri.

The University of Missouri-Rolla fulfills its *statewide* educational mission through its College of Arts and Sciences, School of Engineering, and School of Mines and Metallurgy. The campus offers superior residential programs at the undergraduate and graduate levels that include a full range of engineering and science degrees and a number of liberal arts programs. The Rolla campus is committed to creating a rich educational environment where, through continued evaluation and improvement, learning and personal development flourish and qualified students are prepared for a lifetime of professional achievement and societal contribution.

The University of Missouri-Rolla shares in the commitment to research, scholarship, and creative activity of the University of Missouri System. Research, both basic and applied, is conducted to advance knowledge, to provide graduate education, and to address the needs of the citizens of Missouri and of the nation. By fostering a community of inquiring and discerning scholars, the campus' research mission enriches the environment for learning and public service. To ensure the widespread benefits of its work, the campus *openly* shares the results of its research and scholarly activities with the international academic and scientific communities.

The University of Missouri-Rolla, with its emphasis on engineering, science, and technology, assumes a special responsibility in assisting and promoting the economic development of the state of Missouri and the nation.

In pursuit of its ~~statewide~~ mission as ~~a Missouri's~~ technological university, the University of Missouri-Rolla engages in public service that derives from its teaching and research activities. Continuing education in engineering and technology within the state of Missouri is a specific responsibility of the University of Missouri-Rolla. In addition, the campus seeks to serve the engineering and scientific education needs of nontraditional students throughout Missouri. ~~---The campus furthers the availability of engineering and scientific education through cooperative efforts with other campuses, innovative delivery systems, and specialized extension programs. This mission is enhanced further through the UMR Engineering Education Center in St. Louis and other off-campus educational programs.~~

→ emphasize special/unique characteristics
→ geographic
→ 2005-2009



UNIVERSITY OF MISSOURI-ROLLA

Department of Electrical Engineering
Thomas J. Herrick, Associate Professor
308 ERL Building
Rolla, Missouri 65401-0249
Telephone (314) 341-4507
FAX # 314-341-4532

MEMO TO: The Academic Council

MEMO FROM: The Ad Hoc Committee on awarding diplomas at commencement
Tom Herrick, Chairman
Myron Parry
Luke Peterson
Vince Road
Bob Wolf

BACKGROUND

The campus has a tradition of awarding diplomas at the commencement ceremony for those students who have completed their degree requirements. However, since the ceremony always occurs before the final grades are due in the Registrar's office, a procedure has developed through the years to report a "minimum grade" to the Registrar's office on the Monday before commencement to determine if the student could satisfy the degree requirements with the minimum grade reported. Because of abuses by some students, many faculty have resorted to reporting F grades as the minimum grade.

With commencement on Saturday of finals week, the time compression does not allow the Registrar's office sufficient time to properly handle all the grade changes. Further, many faculty who give final examinations on Thursday or Friday feel they cannot properly grade the examinations in such a short time span, and therefore do not change the minimum reported grade until the final grade reports are due. This, of course, is the week following commencement.

As a result of this procedure, perhaps 30 to 40 percent of those students participating in the ceremony do not have a diploma in the diploma jacket.

It is certainly not good institutional policy that some students receive their diplomas and that some do not, based on a procedure that the student neither completely understands, nor has any control over. It is embarrassing for students to attempt an explanation to their co-celebrants of why they do not have a diploma while others do. One can only express heartfelt sympathy for the personnel of the Registrar's office in their attempts to explain the procedure, to comfort and frequently quiet irate students demanding their diplomas.

Thus, at a time when the faculty and staff join with the student and those who are dear to the student in a ceremony of recognition and jubilation, a significant number of our graduates leave the ceremony and the campus with an unpleasant experience.

PROPOSED SOLUTIONS:

When we have a procedure where so many students are distraught at the conclusion of what is one of the "milestones" of life, it is clearly a wrong procedure and needs to be changed.

The essence of the problem is the lack of time between the conclusion of the semester (Friday) and the commencement ceremony (Saturday or even Sunday). This has required the use of a "minimum grade" that cannot be lowered. The practice of reporting F grades came about to insure that the students complete the work of the semester (typically final reports or final examinations). One large department has had so much difficulty that they have instituted a departmental policy whereby no minimum grades are reported, with the procedural understanding that they are all F, and that only final grades are reported to the Registrar's office.

Many faculty believe that every effort should be made to continue the practice of awarding diplomas at the commencement ceremony. However, most faculty are not comfortable with the practice of reporting a minimum grade. The student position is essentially that they prefer that virtually all should receive a diploma at the ceremony or none should receive a diploma.

There are the following options.

1. Discontinue the practice of awarding diplomas at commencement. The diplomas would be mailed to the students as soon as possible after the reporting of final grades. A very high percentage of American universities (80% - 90%) follow this procedure. The ceremony will be the same as it has been for several years. The students with honors will still be recognized as groups based on grades recorded through the next-to-last semester. Students will still be recognized by name as they process across the stage to be congratulated by the Chancellor, their Dean, and the President or his representative, accompanied by the traditional raucous outburst of joy.

In fact, not having a diploma in the jacket does not seem to dampen the festive spirit of the students and their co-celebrants. If you question this, the Committee can only refer you to the May commencement. No students received diplomas at the ceremony because of operational problems. The students understand if it can't be done, it can't be done. They only ask that the same action apply to all.

2. Change the commencement date to a time after all final grades are reported. However, this would result in drastically reduced participation by the students in the ceremony.
3. Advance the final examination week for seniors or excuse seniors from the final examinations. This item is on the agenda of the Council this year.

RECOMMENDATIONS:

1. Suspend the awarding of degrees at commencement and the requirement of a minimum grade for All 1990 and Winter 1991.
2. Assign a committee to monitor the acceptance of this procedure by students, parents, faculty and staff, and any others interested.
3. If the Council approves a final examination/grade policy for graduating seniors that significantly advances the date on which final grades are reported to the Registrar, the Committee should prepare proposals for the Council that would allow the students to receive their diplomas at commencement.
4. The Committee should present a report to the Academic Council in September of 1991 recommending a final course of action.

In a separate action, the Committee wants to publicly acknowledge the effort the Registrar's Office expends to make the current procedure work. In fact, the reason the system doesn't collapse into chaos is due to the incredible effort and dedication of Associate Registrar Lauren Peterson. The Committee recommends that a suitable plaque be presented to Lauren expressing the appreciation of the faculty.

RESOLUTION

*Academic Council
13 Sept 90 Meeting*

RE: Calendar Revision, 1990-91

Resolved, That the Winter Semester 1991 calendar be changed by moving the first day of classes from Thursday, January 10, 1991, to Wednesday, January 9, 1991 and that classes be dismissed on Monday, January 21, 1991, Martin Luther King Holiday.

> > > This change is identical to the revision made by Council February 1, 1990, for the 1991-92 Academic Calendar.

> > > The January 21, 1991 holiday is to be observed on other UM campuses.

> > > Public Occasions/Calendar subcommittee have been part of the discussions, including notation of their similar proposal for 1992.

*Rules, Procedures & Agenda Cmtt.
lw/9-13-90*

Board Review

SPECTRUM

News for faculty and staff from the June 21-22 Board of Curators meeting, Springfield

The goal for average salary and wage hikes effective Sept. 1 is 5 percent, according to salary and wage principles approved by the board as part of the fiscal 1991 operating budget. However, the governor on Thursday announced that he will withhold 4.5 percent of the University's appropriation from the state, rather than the customary 3 percent. The University will study the ramifications of the additional withholding on the salary goal. The governor also vetoed the \$1 million the legislature earmarked to create a new UMSL-UMR undergraduate engineering program. Curators approved the concepts of the fiscal 91 spending plan, but its Executive Committee will review budget revisions to be submitted by President Magrath.

David Kemper, chairman of a joint task force on higher education of two citizens groups, Confluence St. Louis and Kansas City Consensus, summarized the task force's report that calls for major new funding for higher education. The task force's implementation group will now work with the state legislature on fulfilling the report's recommendations.

Former curators Jeanne Epple, Bert Bates, Doug Russell and Tom K. Smith discussed their role in creating the University's 1984 long-range plan and highlighted tangible results of the plan. The board will proceed with steps to revise the existing long-range plan by appointing a University Planning Task Force to guide the process over the next 12 to 15 months.

In a status report on libraries, the board heard that libraries throughout the UM System have declined in the past 10 to 20 years. The University would need to double present funding (\$12.8 million) to return the libraries to the quality they enjoyed in the early 1970s. To advance beyond the early 1970s level would require an even greater investment of funds. On the positive side, libraries have completed or launched major library construction, collections have added significant acquisitions and the automated library catalog system has become recognized as among the finest in the nation.

At the request of Curator John Lichtenegger, campus faculty governance groups will be asked this fall to reconsider the minimum number of faculty members required to call a general faculty meeting. Lichtenegger said his concern is the cost of such meetings.

Awards and honors: The board approved 24 Missouri Research Assistance Act projects representing researchers on all four UM System campuses. The board also approved five UM System research projects to be funded by the Alzheimer's Disease and Related Disorders Program. Both research programs were created by the state.

Next meeting: Aug. 2-3, UM-Kansas City

University of Missouri System

Board Review

SPECTRUM

News from the Aug. 2-3 Board of Curators meeting, UM-Kansas City

Curators voted to ask the state for \$370.1 million to operate the University System in 1991-92. The state appropriations increase would cover the costs of continuing the University at current levels (\$19.1 million, including a 6.5 percent increase in compensation), repairing the budget base (\$26.3 million, including another 5 percent compensation increase) and making program improvements (\$24.7 million). The University's appropriation from the state for 1990-91 increased only \$13 million. The board also approved a \$271 million request for capital appropriations to restore, build and equip buildings in 1991-92.

Employees and retirees will have new life insurance options beginning Jan. 1. The board authorized a group permanent life insurance plan through Metropolitan Life Insurance Co. Permanent life insurance enables employees to accumulate a cash value and to continue the policy after leaving the University. The University will continue to offer a group term life insurance plan, and the board authorized the University to contract with Travelers Insurance Co. for this plan. General American now provides this insurance. Details will be provided through benefits mailings and other internal communications.

This fall's review of academic programs should include external consultants, employers that benefit from the programs and graduates of the programs, Curators Sam Cook and Ed Turner said. "There is a natural tendency in any organization to preserve what is," Cook said. President Magrath said, "Internally we do make hard-headed assessments, but we'll make better judgments if we are influenced by what the people out there are telling us they want."

Affirmative action and minority participation are the most important issues facing the long-range planning task force, which will hold its first meeting later this month, President Magrath told curators. He outlined seven steps for making the University "truly a culturally diverse institution" and "changing the attitudes toward race that limit our affirmative action efforts and reduce the attractiveness of our campuses to minority members."

Paul Matteucci, student representative to the board, presented the curators' seminar on non-traditional students -- defined as undergraduates age 25 or older and younger undergraduates who attend part-time or who took time off after high school or for more than one year during college. Current trends predict that such students will be the new majority by the end of the 20th century. Of the 32,000 non-traditional students in Missouri public higher education, 14,000 are UM System students. UMSL, where Matteucci is a student, has 800 more non-traditional students than the other three campuses combined. The University should begin planning now to provide programs and financial support to meet the needs of higher education's new majority of non-traditional students, especially in the metropolitan areas, Matteucci told the board.

Educational fees for most courses will rise 5.8 percent in 1991-92. The increase will add about \$9 million to the University's budget. Fees for freshman and sophomore level courses will increase \$3.50 per credit hour; upper level course fees will increase \$3.80 per credit hour. Fees for some professional programs and engineering and journalism courses will increase more than 5.8 percent.

Next meeting: Sept. 6-7, UM-Columbia

University of Missouri System

SPECTRUM

News from the Sept. 6 Board of Curators meeting, UM-Columbia

Bill Bondeson, UMC professor of philosophy, gave the board his view on teaching as the central mission of a university. A member of the University faculty since 1964, Bondeson is a frequent winner of teaching awards. Colleges throughout the United States are re-committing themselves to teaching, Bondeson said, because first-rate teaching is the heart and soul of a university. This University needs to create an environment that encourages and rewards teaching. There is no single model of teaching, and faculty members follow a variety of models and serve many roles. "We need to understand that teaching is not simply standing up before large classes. It involves a variety of roles and a variety of models, all of which have their own special and unique kind of excellence." Great teaching is not achieved in the absence of research, but a university needs to balance all roles of a faculty member. One of a faculty member's tasks should be to inspire young people to pursue careers as teachers, especially in light of the imminent shortage of faculty in all disciplines, Bondeson said.

All campuses of the University System are involved in activities to help preserve the environment. A board discussion was introduced by Curator Peter Raven, a world-renowned environmentalist, who said the University has a responsibility to serve as a role model and also to educate future leaders of Missouri to be environmentally conscious. Curator Andy Runge, a leading Missouri conservationist, said the University must strive to instill an environmental ethic in students. Reports to the board noted academic research by centers or individual faculty and outlined each campus's environmental operations, which include planning activities, recycling programs and processes to ensure purchases of recycled and environmentally benign products. Committees have been created on each campus to investigate such environmental issues as ways to reduce, collect and dispose of waste; identification of markets for recycled materials; and expansion of recycling efforts. In a related discussion, Board President Eva Louise Frazer urged the University to work toward the board's goal of creating smoke-free campuses.

The University's technology for compiling information for administrative policy-making is not up-to-date, President Magrath told curators. At the board's urging, the system and campuses are working together to develop an improved information system that can organize information quickly and effectively for curators and administrators to use in planning and evaluating the University's missions.

Funding from gifts, grants and contracts increased 22.7 percent in fiscal 1990, President Magrath reported to the board. The \$41.4 million in gifts, up 29.4 percent, and the \$93.6 million in grants and contracts, up 17.3 percent, represent continued growth in external funding to the University System. Such funding increased by \$60.2 million (80.4 percent) during the past five years, while state funding increased only 37.3 percent. The board's goal of doubling private giving in 10 years was reached in about half that time. External funding helps the University make improvements in areas where state funds are not available, Magrath told curators, but only increased state funding can bring about the magnitude of improvements needed to make the University competitive and responsive to the state's needs.

Next meeting: Oct. 18-19, UM-Columbia

University of Missouri System



UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

103 Parker Hall
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MEMO TO: Academic Council

FROM: Curricula Committee

DATE: October 11, 1990, Meeting

Approved CCl's:

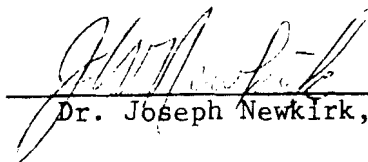
CCl 3331, Chemical Engineering 358, Chemical Process Safety. Approved for Winter 1991. New course. 3 hours credit. Prerequisite: Must be a senior in Chemical Engineering. Description reads: The identification and quantification of risks involved in the processing of hazardous and/or toxic materials areas studied.

CCl 3333, Philosophy & Liberal Arts, Speech & Media Studies 235, Intercultural Communication. Approved new course for Winter 1991. 3 credit hours. Prerequisite: SP&M 85. Description: Examines the range of human differences as variables in the communication process; emphasis on broadening individual perspectives regarding the range of human experience. Particularly useful for students who will work and live in environments unlike those previously encountered.

CCl 3334, Life Sciences 331, Molecular Genetics. Approved for Winter 1991. Change in prerequisite from L Sc 221 and 231 to L Sc 231. Credit hours changed from 3 hours lecture and 2 hours lab to 3 hours lecture. Change in description: A study of the properties and function of DNA that make this macromolecule unique in the universe. Examples of replication, transcription, translation, repair, and regulation will be examined in viruses, prokaryotes, and eukaryotes.

CCl 3338, Civil Engineering 314, Geotechnical Aspects of Waste Management. Approved new course for Winter 1991. 3 credit hours. Prerequisite: CE 215 with grade of "C" or better. Description reads: Geotechnical principles are applied to design of systems for disposal of hazardous and conventional wastes. Emphasis is on hydraulic conductivity of soil as affected by physicochemical properties, compaction and soil-permeant interaction. Geosynthetics, slurry walls, monitoring wells, and remediation alternatives.

CCl 3339, Chemistry 051, Elementary Quantitative Chemical Analysis. Approved for Winter 1991. Change in prerequisites from Chem 3 and 8, to be accompanied by Chem 51 to Preceded or accompanied by Chem 3 or 5 to be accompanied by Chem 52.


Dr. Joseph Newkirk, Chair



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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UMR Faculty

A G E N D A

October 18, 1990

Academic Council Meeting, Thursday, October 25, 1990; 1:30 p.m.; G-5 H/SS.

I. Approval of minutes of the June 14, 1990 (VOL. XIX, NO. 7) and September 13, 1990 (VOL. XX, NO. 1) minutes.

II. Reports and Responses

- *A. President's Report (10 min.) Vince Roach (4449)
- B. Referrals
 - 1. Revised Affirmative Action Procedures to the Personnel Committee
 - 2. Concerns Relative to Procedures in Policies on Research Dishonesty to the Personnel Committee
 - 3. Scope of Graduation Requirements to the Curricula Committee
 - 4. Repeated Course Grade Policy to the Admissions and Academic Standards Committee
 - 5. Delayed Grade Policy to the Admissions and Academic Standards Committee
 - 6. Substitution/Waiver Policies and CAPS to the Admissions and Academic Standards Committee
 - 7. Clep General Exam to the Admissions and Academic Standards Committee
 - 8. Final Examination Policy to the Admissions and Academic Standards Committee
- C. Chancellor's Report - Recruiting, Missourians for Higher Ed, Research Enhancement, et cetera (15 min.) Martin Jischke (4114)
- D. Director's Report - Library Status (10 min.) Ronald Bohley (4227)

III. Reports of Standing and Special Committees

- A. D.6.a Academic Assessment (No Report) (☐)
 - 1. Assessment Test Scheduling (April 26, 1990; XIX, 6; II.B.2)
- B. D.6.c Admissions and Academic Standards (No Report) Thomas Herrick (4507)
 - 1. Excused Absence Procedure (May 5, 1988; XVII, 8; II.B.1)
 - 2. Minimum Grade Procedures (April 26, 1990; XIX, 6; II.B.3)
- C. D.6.g Campus Safety Committee (No Report) John Carstens (4361)
 - 1. Hazardous Chemicals/Waste Materials Policy Draft (June 14, 1990; XIX, 7; II.B.1)
- D. D.6.i Curricula (5 min.) Lance Williams (4816)
 - *1. Report No. 2, 1990-91
- E. D.6.m Library and Learning Resources (10 min.) Dennis Perry (4694)
 - 1. Resolution
- F. D.6.o Personnel (No Report) Lance Haynes (4803)
 - 1. Faculty Evaluation of Department Chairs (March 29, 1990; XIX, 5; II.B.3)
 - 2. UM Sexual Harrassment Policy Proposal (June 14, 1990; XIX, 7; II.B.3)



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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VOL. XX, NO. 2
October 25, 1990

SUMMARY of the reports, actions, referrals and announcements made at the meeting of the Academic Council held on October 25, 1990.

1. Approval of the minutes of the June 14, 1990, and the September 13, 1990, meetings.
2. Reports and responses.
 - A. President's report - V. Roach
(Attachment II.A)
 - B. Referrals
 1. Revised affirmative action procedures to the Personnel Committee
 2. Concerns relative to procedures in policies on research dishonesty to the Personnel Committee
 3. Catalogue of record for graduation requirements to the Curricula Committee
 4. Repeated course grade policy to the Admissions and Academic Standards Committee
 5. Delayed grade policy to the Admissions and Academic Standards Committee
 6. Substitution/waiver policies and CAPS to the Admissions and Academic Standards Committee
 7. Clep general exam to the Admissions and Academic Standards Committee
 8. Final examination policy to the Admissions and Academic Standards Committee
 - C. Chancellor's report - M. Jischke
 1. Student recruiting
 2. Missourians for Higher Education
 3. Teaching enhancement
 - D. Director's report - R. Bohley
 1. Library status
(Attachment II.D)
3. Reports of standing and special committees.
 - A. Curricula - L. Williams
 1. Report No. 2, 1990-91
 - a. Fourteen experimental courses presented
 - b. Three new courses approved
 - c. Two course changes approved
(Attachment III.A)
 - B. Library and Learning Resources - D. Perry
 1. Resolution - UMR library funding goals
(Attachment III.B)

an equal opportunity institution



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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VOL. XX, NO. 2
October 25, 1990

XX, 2 The October 25, 1990, meeting of the Academic Council was
.1 called to order at 1:37 p.m. by Prof. D. Vincent Roach,
Academic Council President. The following substitutions
were recognized: Prof. Jerry Bayless for Dean Davis; Prof.
Steve Douglas for Prof. Glen Haddock; Prof. Paul Stigall for
Prof. Randy Moss; and Ms. Virginia Ryle for Vice-Chancellor
John Park. Staff Council representative was Mr. Bill White.

Prof. Lance Williams moved for approval of the June 14,
1990, minutes. Prof. Jim Pogue seconded the motion which
passed.

Prof. Pogue moved to approve the September 13, 1990, minutes
as corrected: Paragraph 3.C.1 (page 3), SPONSORED RESEARCH
INCENTIVE PROGRAM -- 1/16, not 1/8, of the distribution is
allotted to each department head and dean; and Paragraph
4.C.1 (page 7), AWARDING DIPLOMAS AT GRADUATION CEREMONIES
-- Prof. Thomas Herrick moved for approval of the Committee
recommendation to suspend the awarding of diplomas (not
degrees) The motion, seconded by Prof. Williams, was
approved.

XX, 2 REPORTS AND RESPONSES.

.2

A. PRESIDENT'S REPORT. President Vincent Roach reported
that faculty, staff, and students' main concern is the
maintenance and support of program quality/reputation
established at UMR over the past 120 years. Toward this
end, the University is exploring the possibility of
additional appropriations from the state, voter approval
of a tax initiative, and change in the fee structure (task
force established).

Concerning medical benefits, the Graduate Student
Council is working with the Interfraternity Council
(IFC) and the Vice-President for administrative affairs
toward student medical program improvements. The Board
of curators approved a 10 percent increase in employee
medical premiums, and information was disseminated on
the "Flexible Spending" program. Life insurance
coverage has changed as of January 1 -- Plan C converts
to Plan B -- so enroll in additional coverage during
November 1 to November 16. Prof. Bruce Selberg, UMR
representative on the U-Wide Staff Benefits Committee,
and Ms. Phyllis McCoy will be present during the
November Council meeting to discuss the changes in the
faculty/staff benefits package.

Other University-wide activities for ICFC include review of the new Weldon Springs guidelines (\$15,000 for Presidential Research Award and remaining amount distributed 20 percent to Assistant Professorship Awards and 80 percent to senior faculty) and the proposed information data base. The Board of Curators adopted a smoking policy (UMR has one in place) and reviewed of the report presented by the Academic Affairs Committee on Research and Teaching.

Budget materials (i.e., 1992 appropriations) have been received from Vice-President McGill and have been forwarded to Prof. Tom Van Doren, Budgetary Affairs Chair.

President Roach also indicated that the current referral procedure will be continued. Consulting with the Rules, Procedure and Agenda Committee prior to referring a concern is meant to expedite rather than delay consideration. Concerns may still be presented for action at Council meetings under New Business.

B. REFERRALS.

1. REVISED AFFIRMATIVE ACTION PROCEDURES to the Personnel Committee.
2. CONCERNS RELATIVE TO PROCEDURES IN POLICIES ON RESEARCH DISHONESTY to the Personnel Committee.
3. CATALOGUE OF RECORD FOR GRADUATION REQUIREMENTS to the Curricula Committee.
4. REPEATED COURSE GRADE POLICY to the Admissions and Academic Standards Committee.
5. DELAYED GRADE POLICY to the Admissions and Academic Standards Committee.
6. SUBSTITUTION/WAIVER POLICIES AND CAPS to the Admission and Academic Standards Committee.
7. CLEP GENERAL EXAM to the Admissions and Academic Standards Committee.

C. CHANCELLOR'S REPORT.

1. STUDENT RECRUITING. Chancellor Martin Jishcke reported that the goal of an additional 150 students on campus next fall has been set. Attainment of

this goal would serve the state which has a low rate of college-bound students. This campus would also operate more efficiently with more students.

On an experimental basis, a full-time admissions officer in St. Louis was hired; more states were added to our area of recruitment; and financial aid is increasing, particularly for out-of-state students.

Marketing Horizons (which surveyed 750 students, parents, employers, alumni, et cetera) will present their results at the November 8 Chancellor's Council meeting. According to Chancellor Jishcke, the report comments positively on UMR's quality faculty and curricula. In recruiting, though, we should emphasize that which is important to students and their parents -- jobs after college. Sixty percent of prospective students and sixty-one percent of their parents list jobs as the single most important issue pertaining to college education. Another report on Admission Activities by George Dane is still pending.

Chancellor Jishcke has concluded that (1) UMR is fundamentally sound with regards to program quality; (2) more effective marketing is necessary to increase the applicant pool; and (3) additional resources/staff will be required for the projected increase in enrollment.

2. MISSOURIANS FOR HIGHER EDUCATION (MHE). This consortium of 46 private/public Missouri educational institutions is making progress in support of additional funding as Chancellor Jischke indicated. In the recent poll (less than five percent uncertainty), 70 percent of Missouri voters were sure or somewhat sure they would support a tax increase of \$350 million earmarked for higher education. Recently, a group from MHE met with leaders from the Missouri Senate to discuss strategy/plans for next year's ballot proposal.

Show-Me the Future, the Needs of Higher Education will be circulated in the next two or three weeks to 200,000 Missouri opinion leaders.

The civic groups, Confluence in St. Louis and Concensus in Kansas City, have issued an independent report stating the need for \$331 million per year to meet the needs of higher education.

3. TEACHING ENHANCEMENT. Chancellor Jischke announced the formation of an Ad Hoc Task Force to study the teaching environment on campus. The group (consisting of eight faculty members, three staff and two students and chaired by Prof. Donald Askeland) will forward practical suggestions toward enhancing teaching.

The Chancellor cited reasons for the study: teaching is the central mission at this University; teaching has a very high priority with students and their parents; there is a growing debate nationally on the quality of teaching at research universities; and this study is integral to and timely in light of our efforts with (a) the Freshman Engineering and the Assist programs, (b) the Faculty Excellence Awards, (c) the engineering equipment bill, (4) the task force on retention report, (d) the undergraduate research program, (e) the graduate teaching assistant screening program, (f) reduced faculty student ratios, and (g) the improved physical layout of the campus.

Chancellor Jischke has also received and forwarded to the Task Force the following suggestions for their consideration: a center for improved teaching/advising and a campus-wide policy on effective teaching practices (listed were guidelines for office hours, requirements for written notice of student examinations and grading policies, circumstances for cancellation of classes, a real reading period, the requirement of a final examination, and additional policy to combat academic dishonesty).

Faculty comments/suggestions are welcome and should be addressed to Prof. Askeland.

The Chancellor hopes that this study will "establish a stronger faculty consensus on the importance of teaching in decisions that affect hiring, promotion, tenure and salary increases."

D. DIRECTOR'S REPORT.

1. LIBRARY STATUS. Mr. Ronald Bohley emphasized that, even though we are facing serious cuts this year, the library has improved greatly during the past decade. Ten years ago, there were no reference services and bibliography instruction -- now the staff works split shifts and talks to students/groups on library usage; CD ROM technology was non-existent -- today, the Engineering Index, Government Document Index, the Reader's Guide to Periodical Literature, the Applied Science and Technology Index, and the Mead General Encyclopedia are on-line; plus, there was no significant interlibrary loan system -- now there is on-line search although sometimes inefficient due to dependence on staff in other libraries. In addition, an architect has been hired to plan the library addition (60,00 sq. ft.). Schematic drawings should be available soon.

As reported by Mr. Bohley, the library's problem (necessitating journal subscription cuts) is due to market prices and underfunding. Foreign periodicals have increased 26 percent or \$26,000 because of price increases and/or the foreign exchange rate (a large number of scientific journals are produced in Holland, England and Japan). Domestic publications which now cost \$300,000 per year are expected to increase by 10 percent. And covered during discussion was an additional problem of reduced monograph purchases as journal subscriptions consume the acquisition fund.

A concerted effort at the UMR library has been made to prepay subscriptions when money is available. Last year \$75,000 was added to the library budget by Chancellor Jischke, and, in 1984, the legislature especially appropriated monies for state libraries. UMR's share -- \$1.3 million -- permitted some three-year prepayments. The central administration has been approached in concert by all four UM libraries to raise/repair the budget base, but this is money which may not be seen without a tax initiative.

As indicated by Mr. Bohley, funding is the problem of all libraries and, even with total funding, all available publications could not be bought. The future trend, therefore, is to become information centers. Indexes will no longer be seen in book

form -- they will be computerized -- and the business of libraries will be to know "what there is, where it is, and how to get it in a reasonable time."

Currently, UMR borrows as much as it lends.
(Attachment II.D)

XX, 2 REPORTS OF STANDING AND SPECIAL COMMITTEES.
.3

A. CURRICULA.

1. REPORT NO. 2, 1990-91. Prof. Lance Williams reported that the inconsistency in cross-listed courses noted in the last meeting has been corrected, the Basic Engineering 101 course title was Academic Skills for Minority Engineers, and, lastly, the Japanese experimental course was spelled correctly.

Prof. Williams moved for acceptance of the EC1 report approved by Curricula. Prof. Jim Pogue seconded the motion, and the motion passed.

Prof. Williams moved for approval of the CC1 report. Prof. Donald Askeland seconded the motion, which carried. CC1 3331, Chemical Engineering 358, Chemical Process Safety, was editorially corrected changing "materials areas studies" to "materials are studied" in its descriptive sentence.

Prof. Williams also pleaded for good review/documentation (with a time limit of 30 days) through the school/colleges especially on proposals concerning cross-listed courses with other disciplines. Secondary negotiations can still be handled by the Curricula Committee.
(Attachment III.A)

B. LIBRARY AND LEARNING RESOURCES.

1. RESOLUTION -- UMR LIBRARY FUNDING GOALS. Prof. Dennis Perry reported that the current level of Library funding for UMR places it in the fifth percentile among other colleges and universities in the nation and is the lowest among all of those on the UM campuses.

The Committee recommendation was presented: "that the budget in the near term (by 1995) be brought up to 3.5 percent and in the long term (by 2000) to 5.0 percent of the total educational and general (E&G) expenditures."

Chancellor Jischke commented that three-fourths of the new monies received have been channelled into compensation (consistently considered the number one priority) and departmental E&E (the number two priority), not to academic support units. He also questioned, not that the library was underfunded, but the basis of the figures presented in this resolution. Chancellor Jischke also noted, responding to a comment on special appropriations (specifically construction), that it is easier to receive money for some projects than for others.

Faculty opinion on this resolution will be sought prior to Council action. (Attachment II.B)

C. PUBLIC OCCASIONS.

1. SUMMER SCHOOL SCHEDULING. Prof. Donald Askeland, substituting for Prof. Jerry Bayless, reported that the Public Occasions Committee and its calendar subcommittee are aware of the summer vacation scheduling difficulty because of the summer session schedule. This problem will not occur again.
2. 1992-93 CALENDAR. Prof. Askeland moved for approval of the 1992-93 academic calendar. The motion was seconded and approved. President Roach editorially corrected the designation ("Spring" to "Winter") of the first semester of 1993. (Attachment III.C.2)
3. PUBLIC OCCASION DATES, 1991-92. Prof. Askeland revised the Homecoming 1991-92 date to October 4-5 to allow for a football game schedule change. After Prof. Askeland moved for approval of the public occasion dates, Prof. Lance Williams seconded the motion, which carried. (Attachment III.C.3)

D. RULES, PROCEDURE AND AGENDA.

1. STUDENT AFFAIRS COMMITTEE ELECTION. Prof. Askeland nominated Mr. Jamie Kimball to replace Mr. Bill Smith, who is on co-op, as Academic Council's student representative to the Student Affairs Committee. Prof. Williams seconded the motion. Prof. Ken Robertson moved to elect by acclamation. This motion was seconded Prof. Williams and Mr. Kimball was elected.

2. BY-LAWS REVISION SUBCOMMITTEE. Prof. Askeland announced that a subcommittee has been formed (Profs. Clyde Wade, Randy Moss, and Ray Edwards) to review the UMR Faculty By-Laws for possible revision, particularly that pertaining to Dean search committee formation.

E. STUDENT AFFAIRS.

1. GREEK LIFE REPORT REVIEW. Prof. Howard Pyron presented the Greek Life Task Force's recommendations on the seven issues and concerns summarized in the report, which was reviewed by the Student Affairs Committee (scholarship, rushing, pledging, living/financial conditions, academic environment/leadership development/social development, public image and UMR Greek organization communication), and moved for acceptance of such. Prof. Williams seconded Prof. Pyron's motion. Hearing no discussion, President Roach called for the question, and the motion carried. (Attachment III.E.1)
2. CONSTITUTION - OMEGA SIGMA. Ms. Janet Alfermann was recognized as present and representing the Omega Sigma organization.

Prof. Pyron reported that Mr. Joe Ward and the Student Affairs Committee reviewed this constitution and recommended its approval. Prof. Williams seconded the motion, which passed.
(Attachment III.E.2)

F. AD HOC COMMITTEE ON RETENTION.

1. REVIEW OF THE RETENTION COMMITTEE REPORT. Prof. Lance Haynes presented and Prof. John Sheffield moved for endorsement of the Ad Hoc Committee review of the Campus Committee on Retention report with the following concerns noted: (1) that the improved teaching and advising required to improve retention "... can only be expected when such improvement is meaningfully rewarded. . . ."; (2) that "... caution must be exercised to ensure that such evaluation and reward procedures are qualitatively fair. . . ."; (3) that "... UMR's retention program must be seen as wholistic, involving the participation of all campus employees and students . . ."; and (4) "... that a fundamental issue in student . . . satisfaction lies outside the campus, in the Rolla community." Prof. Williams seconded the endorsing motion.

In discussion, Prof. Neil Book stated that, while improved advising and teaching are important, more programs to improve study habits and early warning systems should also be considered. Prof. Askeland replied, "... The original, complete report may have contained those recommendations" Prof. Roach called for the question. The motion carried.

It was Council's understanding that this material, when forwarded to the Chancellor, will be included with the Campus Retention Committee report when circulated to the appropriate party(ies).
(Attachment III.F)

Concerning the Greek Life and Retention reports, Prof. Robertson commented that a disservice to the originals may be committed when excerpting specific portions for Council consideration and action.

- G. INTERCAMPUS FACULTY COUNCIL (ICFC). This information was reported in the Chancellor's and President's report.

Prof. Bob Wolf reminded Council that Prof. Pogue deserved a vote of thanks for his performance as ICFC Chair.

XX, 2 OLD BUSINESS.

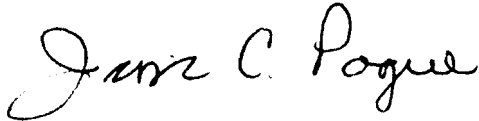
.4

A. CURRICULA.

1. CATALOGUE OF RECORD FOR GRADUATION REQUIREMENTS.
A copy of the April 26, 1990, minutes was circulated by Prof. Williams, who stated the problem of students matriculating under a two-year old undergraduate bulletin to which a significant curriculum(a) change has occurred. Prof. Williams moved for reconsideration of the Council's April 26, 1990, action. Prof. Pogue seconded, and the motion passed. Prof. Askeland moved to table the issue. Prof. Williams seconded this motion, and the motion carried. (Attachment IV.A)

The meeting adjourned at 3:25 p.m.

Respectfully submitted,

A handwritten signature in cursive script that reads "Jim C. Pogue".

Jim C. Pogue
Secretary

Attachments: II.A
II.D
III.A
III.B
III.C.2
III.C.3
III.E.1
III.E.2
III.F
IV.A

*Minutes of the Academic Council Meeting are considered official notification and documentation of actions approved.

- C. Public Occasions - D. Askeland
 - 1. Summer school scheduling
 - 2. 1992-93 calendar
(Attachment III.C.2)
 - 3. Public occasion dates, 1991-92
(Attachment III.C.3)
- D. Rules, Procedure and Agenda - D. Askeland
 - 1. Student Affairs Committee election
 - 2. By-laws revision subcommittee
- E. Student Affairs - H. Pyron
 - 1. Greek life report review
(Attachment III.E.1)
 - 2. Constitution - Omega Sigma
(Attachment III.E.2)
- F. Ad Hoc Committee on Retention - L. Haynes
 - 1. Review of the Retention Committee report
(Attachment III.F)
- G. Intercampus Faculty Council (ICFC) - B. Wolf

4. New business.

- A. Curricula - L. Williams
 - 1. Catalogue of record for graduation requirements
(Attachment IV.A)

Attachments: II.A
II.D
III.A
III.B
III.C.2
III.C.3
III.E.1
III.E.2
III.F
IV.A

October 15, 1990

Memo To: Members of the Academic Council

From: D. Vincent Roach, President
Academic Council

RE: Status of Long Range Planning by University Planning Task Force

I want to summarize briefly below the present status of the long range planning efforts of the University Planning Task Force. This task force was appointed by President Magrath last summer and consists of the four Chancellors, the four campus chairs of faculty Councils/Senates, four members of the Board of Curators (Cook, Lichtenegger, Runge, Turner), the student representative to the Board, Paul Matteucci, two Vice-Presidents (Wallace, McGill) and Associate Vice-President Imig (Extension). The task force has held three day-long meetings.

From my perspective, I see the process of planning by this group proceeding slowly and gradually toward an update of the existing board approved (1986) long range plan. There has been general agreement on the successes and failures of the 1986 plan as well as of the "Agenda for Action".

The four campuses have completed their Mission Statements, which are essentially revisions of the Mission Statements of the 1986 document (UMR Mission Statement in latest draft form is on reverse of this page). There is general agreement that the major planning effort will be at the campus level, but the group will try to minimize time-consuming effort at the faculty level. Generally, the Chancellors and the Faculty Chairs have conveyed their belief that faculty members are weary of planning processes, perhaps even viewing them as useless and non-productive!

Let me now make a few personal observations of (1) this task force planning effort and (2) our role viewed in context of our Mission Statement:

1. The UMR campus (faculty, students and administration) is regarded with respect by the task force members from the other campuses, the Central Administration and the Board of Curators. We are well represented by our Chancellor and our campus community is recognized as one of particular stability and maturity in offering the quality programs we have developed over a period of 120 years.

2. In regard to our campus mission, our priority remains the development of our campus academic programs which have established our reputation, namely residential degree programs. It is obvious that realization of this priority requires additional resources. To obtain those resources, our efforts are directed toward additional state support as well as additional private/corporate support through expanded development (University Advancement) activities.

The Mission Statement includes an expanded mission in regard to access to the non-traditional students across the state (place and/or work bound students). Such an expanded mission in regard to outreach has already been approved by the Board, in keeping with the original concept of a land grant institution such as the University of Missouri, namely to provide accessibility of such quality programs as ours to as many qualified students as possible, wherever possible. The Board approved establishment of a cooperative undergraduate program with UMSL and/or VSAT offering of our programs to non-traditional students. From our vantage point, either or both approaches require not only new resources, but UMR guidance and control to ensure quality of the educational experience. In this matter, we must rely on the administrative officers to guarantee an appropriate working arrangement. Such an expanded outreach effort certainly has impact on the campus as a whole.

UNIVERSITY OF MISSOURI-ROLLA

MISSION STATEMENT

The University of Missouri-Rolla, established in 1870 as the University of Missouri School of Mines and Metallurgy, serves as Missouri's leading engineering and technological university. ~~A technological university of national distinction,~~ The University of Missouri-Rolla is committed to its historic land-grant missions of teaching, research, and public service in behalf of all the citizens of Missouri.

The University of Missouri-Rolla fulfills its *statewide* educational mission through its College of Arts and Sciences, School of Engineering, and School of Mines and Metallurgy. The campus offers superior residential programs at the undergraduate and graduate levels that include a full range of engineering and science degrees and a number of liberal arts programs. The Rolla campus is committed to creating a rich educational environment where, through continued evaluation and improvement, learning and personal development flourish and qualified students are prepared for a lifetime of professional achievement and societal contribution.

The University of Missouri-Rolla shares in the commitment to research, scholarship, and creative activity of the University of Missouri System. Research, both basic and applied, is conducted to advance knowledge, to provide graduate education, and to address the needs of the citizens of Missouri and of the nation. By fostering a community of inquiring and discerning scholars, the campus' research mission enriches the environment for learning and public service. To ensure the widespread benefits of its work, the campus *openly* shares the results of its research and scholarly activities with the international academic and scientific communities.

The University of Missouri-Rolla, with its emphasis on engineering, science, and technology, assumes a special responsibility in assisting and promoting the economic development of the state of Missouri and the nation.

In pursuit of its ~~statewide~~ mission as ~~a Missouri's~~ technological university, the University of Missouri-Rolla engages in public service that derives from its teaching and research activities. Continuing education in engineering and technology within the state of Missouri is a specific responsibility of the University of Missouri-Rolla. In addition, the campus seeks to serve the engineering and *scientific* education needs of nontraditional students throughout Missouri. ~~--The campus furthers the availability of engineering and scientific education through cooperative efforts with other campuses, innovative delivery systems, and specialized extension programs.~~ This mission is enhanced further through the UMR Engineering Education Center in St. Louis and other off-campus educational programs.

The University of Missouri-Rolla is governed through the President of the University of Missouri System and by the University of Missouri System Board of Curators. The Chancellor of the University of Missouri-Rolla provides administrative and academic leadership for the campus with the participation of faculty, staff, and students through the Academic Council, Staff Council, and Student Council, respectively. The University of Missouri-Rolla is committed to the principles of academic freedom for faculty and students. The campus will continue to pursue its goals of affirmative action and equal opportunity employment. UMR actively seeks to bring its resources and opportunities to all qualified individuals regardless of race, creed, sex, or national origin.

Level	Ctl	Num	5th	15th	25th	Percentile 50th	75th	85th	95th
Item N158									
Library expenditures % of E & G Expenditures									
AA	P	862	1	2	2	3	4	5	6
	I	249	0	1	1	3	4	6	11
BA	P	112	2	3	4	4	5	6	8
	I	545	2	2	3	3	4	5	6
DR	P	108	2	3	3	3	4	5	6
	I	56	2	2	2	4	5	5	6
MA	P	253	2	3	3	4	5	5	7
	I	157	2	2	3	4	5	6	7

From: Library Management Ratios, National Data Service for Higher Education.
 ed. John Minter
 (Based on HEGIS/IPEDS data nationwide)

RANK ORDER TABLE 1: VOLUMES IN LIBRARY

Rank	Institution		Rank	Institution	
1	Southern Methodist	2,028,059	61	North Carolina, Greensboro	747,673
2	Ottawa	1,900,943	62	Toledo	744,560
3	Calgary	1,781,651	63	Marquette	743,097
4	Wisconsin, Milwaukee	1,684,181	64	Carnegie-Mellon	740,482
5	Claremont	1,680,881	65	Idaho State	740,252
6	Auburn	1,582,126	66	Maine, Orono	716,790
7	George Washington	1,571,751	67	Idaho	715,103
8	Bowling Green State	1,557,668	68	Clemson	689,467
9	Georgia State	1,535,309	69	Texas Christian	684,099
10	Fordham	1,466,695	70	Texas, Arlington	680,383
11	Ohio University	1,430,939	71	Alaska	652,408
12	Windsor	1,392,187	72	East Texas State	648,052
13	SUNY-Binghamton	1,368,348	73	Montana	609,931
14	West Virginia	1,350,616	74	Northeastern	595,263
15	Baylor	1,312,995	75	Old Dominion	584,580
16	Miami, Ohio	1,312,101	76	New Orleans	542,063
17	Arkansas, Fayetteville	1,274,232	77	North Dakota	541,004
18	Northern Illinois	1,246,648	78	Missouri, St. Louis	529,697
19	South Florida	1,246,567	79	San Francisco	522,967
20	Boston College	1,144,959	80	Middle Tennessee State	518,096
21	Texas Tech.	1,296,659	81	American	515,853
22	Illinois State	1,137,121	82	Andrews	511,648
23	Kansas State	1,130,522	83	Northern Colorado	506,730
24	Oregon State	1,122,248	84	Florida Atlantic	494,776
25	Denver	1,120,055	85	Montana State	494,738
26	Catholic	1,106,675	86	Maryland, Baltimore Co.	479,703
27	William and Mary	1,088,471	87	Drexel University	478,396
28	Memphis State	1,086,155	88	Clark	475,021
29	North Texas	1,072,076	89	Texas, Dallas	457,812
30	Indiana State	1,070,350	90	Calif. Institute of Tech.	455,561
31	Louisville	1,062,064	91	Drake University	440,752
32	Loyola, Chicago	1,030,953	92	Adelphi	439,768
33	Vermont	999,740	93	Teachers College	436,587
34	Hofstra	989,913	94	Northern Arizona	435,136
35	Western Michigan	988,752	95	South Dakota State	422,093
36	Wyoming	978,388	96	Missouri, Rolla	417,864
37	Ball State	967,393	97	North Dakota State	417,776
38	St. John's	966,558	98	South Dakota	406,350
39	New Brunswick	960,316	99	Pacific	401,879
40	New Hampshire	940,684	100	Duquesne	380,244
41	Lehigh	937,807	101	Rensselaer Polytechnic	378,488
42	Calif., Santa Cruz	934,527	102	Illinois Inst. of Tech.	369,436
43	Rhode Island	902,706	103	Tennessee Tech.	340,978
44	Yeshiva	874,421	104	Louisiana Tech	322,003
45	Missouri, Kansas City	868,231	105	Loma Linda	273,707
46	Alabama, Birmingham	865,308	106	Colorado School of Mines	247,551
47	Virginia Commonwealth	860,013	107	Mississippi College	229,473
48	Brandeis	846,510	108	Loma Linda, Riverside	206,643
49	Portland State University	826,411	109	Clarkson, Educ.Res.Center	191,455
50	Southern Mississippi	824,402	110	Polytechnic University	185,690
51	New Mexico State	807,375	111	Florida Inst. of Tech.	104,303
52	Utah State	801,067	112	SUNY-Coll. Env. Sci. & For.	99,593
53	Mississippi	793,688	113	Hahnemann	85,164
54	Tulsa	793,348	114	Nova University	41,459
55	Mississippi State	788,747			
56	Akron	786,075			
57	Nevada, Reno	781,102			
58	St. Louis	759,478			
59	Cleveland State	755,382			
60	Texas Woman's	754,206			

These tables were prepared by the Association for College and Research Libraries and represent 114 institutions whose libraries rank just below the 100+ members of the Association of Research Libraries (which include UM, Michigan, Illinois, Stanford and like institutions.)

RANK ORDER TABLE 5: MATERIALS EXPENDITURES

Rank	Institution		Rank	Institution	
1	Loyola, Chicago	\$5,851,999	61	North Carolina, Greensboro	\$1,325,919
2	Auburn	\$3,242,845	62	Middle Tennessee State	\$1,290,117
3	South Florida	\$2,852,353	63	Calif. Institute of Tech.	\$1,289,004
4	Tulsa	\$2,799,969	64	Florida Atlantic	\$1,254,169
5	Boston College	\$2,778,499	65	Nevada, Reno	\$1,226,341
6	Wyoming	\$2,747,484	66	Rensselaer Polytechnic	\$1,212,162
7	George Washington	\$2,518,709	67	Cleveland State	\$1,193,000
8	Calgary	\$2,464,738	68	American	\$1,133,043
9	SUNY-Binghamton	\$2,451,911	69	New Brunswick	\$1,091,303
10	Ottawa	\$2,393,334	70	Maryland, Baltimore Co.	\$1,091,236
11	Virginia Commonwealth	\$2,391,675	71	Denver	\$1,074,792
12	Louisville	\$2,280,297	72	Northern Colorado	\$1,071,847
13	Arkansas, Fayetteville	\$2,266,581	73	Idaho	\$1,045,885
14	Southern Methodist	\$2,250,199	74	Missouri, Kansas City	\$1,029,814
15	Miami, Ohio	\$2,241,697	75	Texas Christian	\$1,018,304
16	Calif., Santa Cruz	\$2,160,673	76	New Mexico State	\$1,013,682
17	Georgia State	\$2,125,484	77	Alaska	\$934,038
18	Ohio University	\$2,062,017	78	Montana State	\$924,824
19	St. John's	\$2,060,164	79	Indiana State	\$903,390
20	Vermont	\$2,028,996	80	Drexel University	\$903,278
21	Kansas State	\$1,977,717	81	Catholic	\$897,626
22	Southern Mississippi	\$1,975,816	82	Missouri, St. Louis	\$856,222
23	Clemson	\$1,956,690	83	North Dakota	\$846,694
24	Northern Illinois	\$1,952,540	84	Idaho State	\$808,705
25	William and Mary	\$1,944,373	85	Adelphi	\$774,562
26	Memphis State	\$1,917,638	86	St. Louis	\$763,839
27	Lehigh	\$1,914,859	87	New Orleans	\$760,773
28	Toledo	\$1,910,936	88	South Dakota State	\$732,934
29	Texas Tech.	\$2,148,345	89	North Dakota State	\$723,217
30	Akron	\$1,872,070	90	Montana	\$692,070
31	Oregon State	\$1,871,400	91	South Dakota	\$683,782
32	West Virginia	\$1,776,819	92	Illinois Inst. of Tech.	\$671,088
33	Rhode Island	\$1,774,000	93	Clark	\$627,514
34	Baylor	\$1,758,162	94	Andrews	\$608,587
35	Fordham	\$1,758,076	95	Tennessee Tech.	\$577,137
36	Wisconsin, Milwaukee	\$1,709,581	96	Loma Linda	\$573,537
37	Mississippi	\$1,687,120	97	San Francisco	\$563,401
38	Northern Arizona	\$1,675,699	98	Clarkson, Educ.Res.Center	\$511,989
39	Portland State University	\$1,665,509	99	Pacific	\$510,521
40	Hofstra	\$1,634,753	100	Drake University	\$506,924
41	Bowling Green State	\$1,610,696	101	Texas Woman's	\$466,619
42	Illinois State	\$1,602,312	102	East Texas State	\$457,551
43	Texas, Arlington	\$1,587,124	103	Louisiana Tech	\$442,056
44	Maine, Orono	\$1,584,410	104	Colorado School of Mines	\$438,604
45	Alabama, Birmingham	\$1,521,702	105	Missouri, Rolla	\$422,950
46	Utah State	\$1,486,661	106	Duquesne	\$411,144
47	Carnegie-Mellon	\$1,469,883	107	Polytechnic University	\$398,237
48	Western Michigan	\$1,435,134	108	Florida Inst. of Tech.	\$393,928
49	Northeastern	\$1,417,681	109	Hahnemann	\$351,361
50	Brandeis	\$1,417,220	110	Nova University	\$320,322
51	Windsor	\$1,406,000	111	SUNY-Coll. Env. Sci. & For.	\$287,057
52	Old Dominion	\$1,395,422	112	Teachers College	\$236,867
53	Ball State	\$1,394,439	113	Loma Linda, Riverside	\$224,466
54	Mississippi State	\$1,391,904	114	Mississippi College	\$115,918
55	New Hampshire	\$1,371,368			
56	Texas, Dallas	\$1,341,352			
57	Marquette	\$1,340,373			
58	Claremont	\$1,338,393			
59	Yeshiva	\$1,330,553			
60	North Texas	\$1,330,029			

Rank	Institution				
1	Calgary	\$8,520,304	61	Claremont	\$3,236,637
2	George Washington	\$8,447,017	62	Calif. Institute of Tech.	\$3,211,086
3	South Florida	\$7,952,934	63	Missouri, Kansas City	\$3,111,024
4	Ottawa	\$7,876,523	64	American	\$3,090,949
5	Auburn	\$7,668,733	65	New Hampshire	\$3,027,033
6	Boston College	\$7,516,497	66	Florida Atlantic	\$3,017,356
7	Louisville	\$7,355,737	67	Mississippi State	\$2,954,050
8	Virginia Commonwealth	\$7,342,961	68	New Mexico State	\$2,951,140
9	Calif., Santa Cruz	\$6,056,573	69	Indiana State	\$2,916,476
10	SUNY-Binghamton	\$6,004,181	70	Utah State	\$2,799,383
11	Georgia State	\$5,904,738	71	Northern Colorado	\$2,755,421
12	Loyola, Chicago	\$5,851,999	72	Catholic	\$2,681,794
13	Bowling Green State	\$5,527,560	73	Maryland, Baltimore Co.	\$2,667,331
14	Northern Illinois	\$5,516,634	74	Idaho	\$2,622,306
15	William and Mary	\$5,419,629	75	Middle Tennessee State	\$2,590,782
16	Vermont	\$5,328,660	76	Rensselaer Polytechnic	\$2,578,977
17	Wisconsin, Milwaukee	\$5,282,848	77	Texas, Arlington	\$2,466,388
18	Miami, Ohio	\$5,231,481	78	Texas Christian	\$2,458,115
19	Ball State	\$5,146,382	79	Adelphi	\$2,429,713
20	Kansas State	\$5,136,149	80	St. Louis	\$2,417,548
21	Ohio University	\$5,108,600	81	New Orleans	\$2,273,631
22	Southern Methodist	\$5,069,024	82	Drexel University	\$2,211,456
23	Wyoming	\$4,982,642	83	Montana State	\$2,197,650
24	St. John's	\$4,844,244	84	Missouri, St. Louis	\$2,171,981
25	Illinois State	\$4,797,833	85	Denver	\$2,097,485
26	Windsor	\$4,722,000	86	Montana	\$1,989,145
27	Memphis State	\$4,715,017	87	North Dakota	\$1,821,000
28	Arkansas, Fayetteville	\$4,702,046	88	Idaho State	\$1,806,603
29	Tulsa	\$4,599,917	89	North Dakota State	\$1,655,078
30	Oregon State	\$4,570,806	90	Texas Woman's	\$1,652,281
31	Northeastern	\$4,522,113	91	South Dakota State	\$1,635,599
32	Toledo	\$4,506,425	92	Teachers College	\$1,619,964
33	Alabama, Birmingham	\$4,443,386	93	San Francisco	\$1,605,468
34	Fordham	\$4,397,673	94	Clark	\$1,576,688
35	Portland State University	\$4,381,695	95	Tennessee Tech.	\$1,552,934
36	Clemson	\$4,377,362	96	East Texas State	\$1,430,597
37	Akron	\$4,372,573	97	Andrews	\$1,427,222
38	Baylor	\$4,360,717	98	Pacific	\$1,420,664
39	Texas Tech.	\$4,959,380	99	Loma Linda	\$1,400,377
40	Western Michigan	\$4,279,653	100	Illinois Inst. of Tech.	\$1,387,446
41	Rhode Island	\$4,270,900	101	South Dakota	\$1,372,519
42	West Virginia	\$4,182,941	102	Louisiana Tech	\$1,243,150
43	Alaska	\$4,098,123	103	Drake University	\$1,206,310
44	Hofstra	\$4,095,590	104	Hahnemann	\$1,131,637
45	Southern Mississippi	\$4,077,608	105	Polytechnic University	\$1,044,868
46	Mississippi	\$3,920,166	106	Clarkson, Educ.Res.Center	\$1,036,763
47	Northern Arizona	\$3,870,492	107	Missouri, Rolla	\$983,937
48	North Texas	\$3,849,256	108	Colorado School of Mines	\$918,420
49	North Carolina, Greensboro	\$3,809,608	109	Duquesne	\$879,623
50	Lehigh	\$3,705,926	110	Florida Inst. of Tech.	\$878,452
51	New Brunswick	\$3,702,763	111	Loma Linda, Riverside	\$722,386
52	Brandeis	\$3,651,945	112	SUNY-Coll. Env. Sci. & For.	\$691,521
53	Carnegie-Mellon	\$3,651,874	113	Nova University	\$623,002
54	Old Dominion	\$3,640,048	114	Mississippi College	\$338,705
55	Maine, Orono	\$3,622,507			
56	Nevada, Reno	\$3,477,459			
57	Yeshiva	\$3,476,443			
58	Marquette	\$3,440,772			
59	Cleveland State	\$3,391,078			
60	Texas, Dallas	\$3,290,657			

RANK ORDER TABLE 13: TOTAL ITEMS LOANED

Rank	Institution		Rank	Institution	
1	Northern Illinois	47,818	61	Tulsa	6,123
2	Wyoming	28,186	62	Carnegie-Mellon	6,061
3	Ohio University	23,678	63	Texas Woman's	6,032
4	Illinois State	23,579	64	Utah State	6,009
5	Virginia Commonwealth	20,637	65	Texas Christian	5,804
6	Kansas State	16,978	66	Old Dominion	5,591
7	Lehigh	16,510	67	William and Mary	5,565
8	Auburn	16,375	68	East Texas State	5,512
9	Western Michigan	15,434	69	Alaska	5,422
10	New Mexico State	14,643	70	Northeastern	5,199
11	Calgary	14,557	71	Brandeis	5,181
12	Texas Tech.	14,497	72	South Dakota State	5,139
13	West Virginia	14,421	73	Wisconsin, Milwaukee	5,124
14	Louisville	14,262	74	Clark	5,003
15	Idaho	13,924	75	North Carolina, Greensboro	4,769
16	North Texas	13,903	76	Yeshiva	4,525
17	Alabama, Birmingham	13,642	77	Memphis State	4,496
18	Ball State	13,172	78	Calif. Institute of Tech.	4,418
19	Ottawa	13,038	79	Texas, Dallas	4,401
20	Denver	12,928	80	South Dakota	4,172
21	Maine, Orono	12,867	81	Drake University	4,031
22	North Dakota	12,657	82	Loma Linda	3,756
23	South Florida	12,327	83	St. John's	3,636
24	Rhode Island	12,280	84	Hahnemann	3,487
25	Vermont	11,556	85	Colorado School of Mines	3,339
26	Akron	11,432	86	Windsor	3,262
27	Cleveland State	11,042	87	New Brunswick	3,251
28	Toledo	10,972	88	Catholic	3,162
29	SUNY-Binghamton	10,909	89	American	3,159
30	Georgia State	10,581	90	Southern Mississippi	3,084
31	Missouri, St. Louis	10,579	91	Illinois Inst. of Tech.	2,960
32	North Dakota State	10,560	92	Pacific	2,796
33	Northern Colorado	10,418	93	New Orleans	2,600
34	Arkansas, Fayetteville	10,390	94	SUNY-Coll. Env. Sci. & For.	2,178
35	Miami, Ohio	10,388	95	Drexel University	2,117
36	Bowling Green State	10,238	96	Middle Tennessee State	2,089
37	Maryland, Baltimore Co.	10,212	97	Tennessee Tech.	1,920
38	Boston College	10,133	98	Andrews	1,872
39	Missouri, Kansas City	10,063	99	Hofstra	1,739
40	George Washington	10,022	100	Claremont	1,642
41	Oregon State	9,864	101	Teachers College	1,629
42	Loyola, Chicago	9,413	102	Clarkson, Educ.Res.Center	1,601
43	Indiana State	9,068	103	Florida Inst. of Tech.	1,586
44	Texas, Arlington	8,956	104	St. Louis	1,527
45	Southern Methodist	8,667	105	Duquesne	1,266
46	New Hampshire	8,430	106	Adelphi	1,241
47	Montana State	8,414	107	Idaho State	1,145
48	Nevada, Reno	7,848	108	Nova University	934
49	Portland State University	7,686	109	Louisiana Tech	801
50	Montana	7,641	110	Fordham	701
51	Marquette	7,334	111	Loma Linda, Riverside	661
52	Northern Arizona	7,320	112	San Francisco	660
53	Mississippi State	6,951	113	Polytechnic University	323
54	Mississippi	6,861	114	Mississippi College	117
55	Florida Atlantic	6,838			
56	Missouri, Rolla	6,765			
57	Rensselaer Polytechnic	6,650			
58	Baylor	6,534			
59	Clemson	6,498			
60	Calif., Santa Cruz	6,174			

Rank	Institution		Rank	Institution	
1	Northern Illinois	34,755	61	New Hampshire	4,025
2	North Dakota	13,888	62	Clarkson, Educ.Res.Center	4,004
3	Louisville	12,281	63	Southern Mississippi	4,003
4	North Dakota State	11,927	64	Baylor	3,974
5	Cleveland State	10,929	65	Virginia Commonwealth	3,925
6	South Florida	10,897	66	Northern Arizona	3,865
7	Illinois State	10,382	67	Louisiana Tech	3,828
8	Akron	9,822	68	North Texas	3,804
9	Kansas State	9,795	69	Arkansas, Fayetteville	3,770
10	Texas, Arlington	9,352	70	Clark	3,730
11	Wisconsin, Milwaukee	9,180	71	Montana State	3,692
12	Calif., Santa Cruz	8,950	72	Carnegie-Mellon	3,689
13	Ohio University	8,739	73	Nova University	3,414
14	Missouri, Kansas City	8,708	74	Old Dominion	3,414
15	Maine, Orono	8,660	75	Hahnemann	3,285
16	Florida Atlantic	8,541	76	Drake University	3,162
17	Rhode Island	7,953	77	Florida Inst. of Tech.	3,160
18	Ball State	7,939	78	New Brunswick	3,045
19	Loyola, Chicago	7,649	79	William and Mary	3,003
20	Utah State	7,568	80	Claremont	2,867
21	Lehigh	7,391	81	St. Louis	2,861
22	Wyoming	7,198	82	South Dakota	2,816
23	Maryland, Baltimore Co.	7,191	83	Georgia State	2,802
24	Western Michigan	6,860	84	Auburn	2,752
25	New Mexico State	6,757	85	Pacific	2,741
26	Missouri, Rolla	6,730	86	Windsor	2,607
27	Clemson	6,700	87	Northeastern	2,576
28	Memphis State	6,600	88	Texas Christian	2,344
29	Tulsa	6,553	89	East Texas State	2,300
30	Montana	6,486	90	Colorado School of Mines	2,266
31	Calgary	6,373	91	Hofstra	2,228
32	Miami, Ohio	6,179	92	New Orleans	2,200
33	Toledo	6,080	93	American	2,169
34	Alabama, Birmingham	6,004	94	Adelphi	2,081
35	Oregon State	6,002	95	Polytechnic University	2,076
36	Northern Colorado	5,989	96	North Carolina, Greensboro	1,993
37	Vermont	5,964	97	Denver	1,970
38	Idaho	5,882	98	Illinois Inst. of Tech.	1,900
39	Texas Tech.	5,800	99	Loma Linda	1,853
40	Marquette	5,724	100	Portland State University	1,830
41	Alaska	5,565	101	Tennessee Tech.	1,767
42	Boston College	5,557	102	Andrews	1,674
43	Brandeis	5,281	103	SUNY-Coll. Env. Sci. & For.	1,661
44	Ottawa	5,205	104	San Francisco	1,657
45	Indiana State	5,065	105	St. John's	1,542
46	SUNY-Binghamton	5,064	106	Catholic	1,511
47	West Virginia	5,005	107	Idaho State	1,375
48	South Dakota State	4,987	108	Fordham	1,350
49	George Washington	4,955	109	Teachers College	1,034
50	Yeshiva	4,904	110	Middle Tennessee State	970
51	Bowling Green State	4,741	111	Duquesne	584
52	Mississippi State	4,723	112	Texas, Dallas	403
53	Drexel University	4,683	113	Loma Linda, Riverside	268
54	Missouri, St. Louis	4,663	114	Mississippi College	171
55	Mississippi	4,641			
56	Texas Woman's	4,525			
57	Rensselaer Polytechnic	4,421			
58	Calif. Institute of Tech.	4,323			
59	Nevada, Reno	4,297			
60	Southern Methodist	4,233			

RANK ORDER TABLE 17: TOTAL STAFF

Rank	Institution	Rank	Institution	Rank	Institution
1	George Washington	249	61	Lehigh	91
2	Calgary	246	62	Old Dominion	89
3	South Florida	222	63	Nevada, Reno	88
4	Ottawa	212	64	Southern Mississippi	88
5	Louisville	204	65	Adelphi	88
6	Ball State	194	66	Alaska	87
7	Auburn	193	67	Maine, Orono	86
8	Boston College	184	68	Claremont	86
9	Virginia Commonwealth	182	69	Florida Atlantic	85
10	Northern Illinois	178	70	Tulsa	81
11	North Texas	171	71	St. Louis	80
12	St. John's	170	72	Texas, Dallas	79
13	Arkansas, Fayetteville	170	73	Yeshiva	78
14	Georgia State	168	74	Drexel University	76
15	West Virginia	167	75	New Orleans	76
16	Northeastern	162	76	Northern Colorado	75
17	Miami, Ohio	152	77	Idaho	72
18	Texas Tech.	152	78	Denver	71
19	Loyola, Chicago	150	79	Missouri, St. Louis	70
20	Bowling Green State	149	80	Utah State	68
21	Illinois State	149	81	Texas Christian	67
22	Kansas State	148	82	Texas Woman's	66
23	Ohio University	144	83	Teachers College	65
24	Western Michigan	142	84	Montana State	64
25	Alabama, Birmingham	140	85	Maryland, Baltimore Co.	64
26	Baylor	139	86	North Dakota State	63
27	Memphis State	138	87	Middle Tennessee State	61
28	Southern Methodist	136	88	Rensselaer Polytechnic	61
29	Oregon State	135	89	Calif. Institute of Tech.	60
30	SUNY-Binghamton	134	90	East Texas State	60
31	Vermont	133	91	North Dakota	59
32	Wisconsin, Milwaukee	132	92	Tennessee Tech.	58
33	Hofstra	128	93	Louisiana Tech	57
34	Windsor	123	94	Duquesne	55
35	Fordham	122	95	Idaho State	52
36	Calif., Santa Cruz	121	96	Clark	50
37	Portland State University	120	97	Illinois Inst. of Tech.	50
38	Wyoming	118	98	Andrews	50
39	Toledo	115	99	Pacific	46
40	Cleveland State	113	100	Drake University	42
41	Missouri, Kansas City	113	101	South Dakota State	38
42	Akron	112	102	South Dakota	37
43	Rhode Island	111	103	Loma Linda	35
44	New Hampshire	111	104	San Francisco	34
45	New Brunswick	110	105	Missouri, Rolla	29
46	William and Mary	110	106	SUNY-Coll. Env. Sci. & For.	29
47	Indiana State	108	107	Hahnemann	29
48	Clemson	107	108	Polytechnic University	28
49	Marquette	102	109	Florida Inst. of Tech.	28
50	Catholic	101	110	Colorado School of Mines	25
51	Brandeis	101	111	Loma Linda, Riverside	24
52	American	99	112	Clarkson, Educ.Res.Center	23
53	New Mexico State	98	113	Nova University	20
54	Northern Arizona	98	114	Mississippi College	16
55	Mississippi State	98			
56	Texas, Arlington	98			
57	Carnegie-Mellon	94			
58	Montana	93			
59	North Carolina, Greensboro	93			
60	Mississippi	92			

FALL SEMESTER 1992

Fall Semester opens 7:30am	Aug. 18, Tues.
Freshmen Orientation	Aug. 18, Tues.
New Student Orientation and Registration	Aug. 19, Wed.
Student Registration 8:15am-3:30pm	Aug. 20, Thurs.
Classwork begins 7:30am	Aug. 24, Mon.
Labor Day Holiday	Sept. 7, Mon.
Mid-Semester	Oct. 17, Sat.
Thanksgiving vacation begins 7:30am	Nov. 25, Wed.
Thanksgiving vacation ends 7:30 am	Nov. 30, Mon.
Last Class Day	Dec. 11, Fri.
Reading Day	Dec. 12, Sat.
Final Examinations begin 8:00am	Dec. 14, Mon.
Final Examinations end 5:30 pm	Dec. 18, Fri.
Fall semester closes 5:30 pm	Dec. 18, Fri.
Fall Commencement	Dec. 19, Sat.

SPRING SEMESTER 1993

Spring Semester opens 7:30am	Jan. 11, Mon.
Student Registration 8:15am-3:30pm	Jan. 11, Mon.
Classwork begins 7:30am	Jan. 13, Wed.
Martin Luther King Jr. Recognition Holiday	Jan. 18, Mon.
Mid-Semester	Mar. 6, Sat.
Spring recess begins 7:30am	Mar. 11, Thurs.
Spring recess ends 7:30am	March 15, Mon.
Spring break begins 7:30am	March 27, Sat.
Spring break ends 7:30am	April 5, Mon.
Last Class Day	May 7, Fri.
Reading Day	May 8, Sat.
Final Examinations begin 8:00am	May 10, Mon.
Final Examinations end 5:30pm	May 14, Fri.
Spring Semester closes 5:30pm	May 14, Fri.
Annual Commencement	May 15, Sat.

*SUMMER SESSION 1993

Summer Session opens 7:30am	June 7, Mon.
Student Registration 8:15am-3:30pm	June 7, Mon.
Classwork begins 7:30am	June 8, Tues.
Independence Day Holiday	July 5, Mon.
Summer Session closes 12:00 noon	July 31, Sat.

*Schedule shows the regular eight-week Summer Session. Other special course sessions may be scheduled.

CLASS SESSIONS (Excluding final examinations)

	M	Tu	W	Th	F	S
Fall Semester	14	16	15	15	15	15
Spring Semester	14	15	16	15	15	15
Summer Semester	6	8	8	8	8	8

NOTE: For the Engineering Education Center, all class sessions, holidays and/or examinations will coincide with the calendar of the University of Missouri-St. Louis evening program. Registration times and dates to be announced later.

The faculty is reminded of the religious and other holidays that a substantial number of students may wish to observe.

PUBLIC OCCASIONS DATES FOR 1991-92

Industry Career Day.....Thursday, September 26, 1991

Homecoming.....Friday and Saturday
October 11 and 12, 1991

UM-Rolla Day.....Saturday, October 19, 1991

Parents Day.....Saturday, November 2, 1991

Commencement*.....Saturday, December 21, 1991

Science and Engineering Fair.....Friday and Saturday,
March 20 and 21, 1992

Spring Open House.....Saturday, April 11, 1992

Commencement*.....Saturday, May 16, 1992

Summer Open House.....Friday, July 17, 1992

*Approved as part of 1991-92 calendar.



UNIVERSITY OF MISSOURI-ROLLA

HIGHLIGHTS
ACADEMIC COUNCIL MEETING
October 25, 1990

Academic Council

202 Norwood Hall
Rolla, MO 65401-0249
Telephone (314) 341-4972

PRESIDENT'S REPORT: President Roach reported that a primary concern of the faculty is the need for sufficient financial support to maintain UMR's 120 year history of success in its academic programs. Possible sources of funding include an increase in state appropriations, a tax increase for higher education, and changes in the student fee structure. Another concern is staff benefits. In that regard, at the November 29 meeting of the Academic Council, Professor Bruce Selberg, a member of the University Staff Benefits Committee, will report regarding our staff benefits package.

President Roach announced that all University employees should be aware that funds accumulated in a "Flexible Spending Account," for expenses such as daycare for children or health costs not covered by insurance, which remain unexpended at the year's end are forfeited and revert to the University.

President Roach also reported that this year the monies from the Weldon Spring Fund will be divided as follows: \$15,000 for the Presidential Research Award; of the remaining funds, 20 percent will be designated for "Junior Faculty" (untentured assistant professors) and 80 percent for senior faculty. Competition for the funds will be University-wide (four campus) with external reviewers involved in the selection of awards.

President Roach, by memorandum, also reported on the status of long-range planning by the University Planning Task Force. He stated that he sees "the process of planning by this group proceeding slowly and gradually toward an update of the existing board approved (1986) long-range plan. There has been general agreement on the successes and failures of the 1986 plan as well as of the "Agenda for Action."

CHANCELLOR'S REPORT: Chancellor Jischke reported to the Council on three topics: Recruitment of Students; Missourians for Higher Education; and the Task Force to Review UMR's Teaching Environment.

1. The goal of student recruitment is to increase our enrollment next year by 150 students. Among the reasons for increasing the enrollment are the continuing demand, and need, for our graduates and campus cost effectiveness. To assist in fulfilling this goal, a full-time admissions officer will be based in St. Louis, the geographical "pool" from which we seek students will be increased, and financial aid improved. The Chancellor noted that we must learn to "market" UMR more effectively.

2. Missourians for Higher Education (MHE) continues to work toward increasing funding for higher education. In a recent, very encouraging poll, 70 percent of those polled were either "very sure" or "somewhat sure" of supporting a \$350 million tax increase to benefit higher education. Such a proposal will be placed on a state-wide ballot early next summer.

October 15, 1990

Memo To: Members of the Academic Council

From: D. Vincent Roach, President
Academic Council

RE: Status of Long Range Planning by University Planning Task Force

I want to summarize briefly below the present status of the long range planning efforts of the University Planning Task Force. This task force was appointed by President Magrath last summer and consists of the four Chancellors, the four campus chairs of faculty Councils/Senates, four members of the Board of Curators (Cook, Lichtenegger, Runge, Turner), the student representative to the Board, Paul Matteucci, two Vice-Presidents (Wallace, McGill) and Associate Vice-President Imig (Extension). The task force has held three day-long meetings.

From my perspective, I see the process of planning by this group proceeding slowly and gradually toward an update of the existing board approved (1986) long range plan. There has been general agreement on the successes and failures of the 1986 plan as well as of the "Agenda for Action".

The four campuses have completed their Mission Statements, which are essentially revisions of the Mission Statements of the 1986 document (UMR Mission Statement in latest draft form is on reverse of this page). There is general agreement that the major planning effort will be at the campus level, but the group will try to minimize time-consuming effort at the faculty level. Generally, the Chancellors and the Faculty Chairs have conveyed their belief that faculty members are weary of planning processes, perhaps even viewing them as useless and non-productive!

Let me now make a few personal observations of (1) this task force planning effort and (2) our role viewed in context of our Mission Statement:

1. The UMR campus (faculty, students and administration) is regarded with respect by the task force members from the other campuses, the Central Administration and the Board of Curators. We are well represented by our Chancellor and our campus community is recognized as one of particular stability and maturity in offering the quality programs we have developed over a period of 120 years.

2. In regard to our campus mission, our priority remains the development of our campus academic programs which have established our reputation, namely residential degree programs. It is obvious that realization of this priority requires additional resources. To obtain those resources, our efforts are directed toward additional state support as well as additional private/corporate support through expanded development (University Advancement) activities.

The Mission Statement includes an expanded mission in regard to access to the non-traditional students across the state (place and/or work bound students). Such an expanded mission in regard to outreach has already been approved by the Board, in keeping with the original concept of a land grant institution such as the University of Missouri, namely to provide accessibility of such quality programs as ours to as many qualified students as possible, wherever possible. The Board approved establishment of a cooperative undergraduate program with UMSL and/or VSAT offering of our programs to non-traditional students. From our vantage point, either or both approaches require not only new resources, but UMR guidance and control to ensure quality of the educational experience. In this matter, we must rely on the administrative officers to guarantee an appropriate working arrangement. Such an expanded outreach effort certainly has impact on the campus as a whole.

UNIVERSITY OF MISSOURI-ROLLA

MISSION STATEMENT

The University of Missouri-Rolla, established in 1870 as the University of Missouri School of Mines and Metallurgy, serves as Missouri's leading engineering and technological university. ~~A technological university of national distinction,~~ The University of Missouri-Rolla is committed to its historic land-grant missions of teaching, research, and public service in behalf of all the citizens of Missouri.

The University of Missouri-Rolla fulfills its *statewide* educational mission through its College of Arts and Sciences, School of Engineering, and School of Mines and Metallurgy. The campus offers superior residential programs at the undergraduate and graduate levels that include a full range of engineering and science degrees and a number of liberal arts programs. The Rolla campus is committed to creating a rich educational environment where, through continued evaluation and improvement, learning and personal development flourish and qualified students are prepared for a lifetime of professional achievement and societal contribution.

The University of Missouri-Rolla shares in the commitment to research, scholarship, and creative activity of the University of Missouri System. Research, both basic and applied, is conducted to advance knowledge, to provide graduate education, and to address the needs of the citizens of Missouri and of the nation. By fostering a community of inquiring and discerning scholars, the campus' research mission enriches the environment for learning and public service. To ensure the widespread benefits of its work, the campus *openly* shares the results of its research and scholarly activities with the international academic and scientific communities.

The University of Missouri-Rolla, with its emphasis on engineering, science, and technology, assumes a special responsibility in assisting and promoting the economic development of the state of Missouri and the nation.

In pursuit of its ~~statewide~~ mission as ~~a Missouri's~~ technological university, the University of Missouri-Rolla engages in public service that derives from its teaching and research activities. Continuing education in engineering and technology within the state of Missouri is a specific responsibility of the University of Missouri-Rolla. In addition, the campus seeks to serve the engineering and scientific education needs of nontraditional students throughout Missouri. ~~--The campus furthers the availability of engineering and scientific education through cooperative efforts with other campuses, innovative delivery systems, and specialized extension programs.~~ This mission is enhanced further through the UMR Engineering Education Center in St. Louis and other off-campus educational programs.

The University of Missouri-Rolla is governed through the President of the University of Missouri System and by the University of Missouri System Board of Curators. The Chancellor of the University of Missouri-Rolla provides administrative and academic leadership for the campus with the participation of faculty, staff, and students through the Academic Council, Staff Council, and Student Council, respectively. The University of Missouri-Rolla is committed to the principles of academic freedom for faculty and students. The campus will continue to pursue its goals of affirmative action and equal opportunity employment. UMR actively seeks to bring its resources and opportunities to all qualified individuals regardless of race, creed, sex, or national origin.

Attachment III.B

DRAFT

MEMORANDUM TO: Vincent D. Roach, President,
Academic Council

FROM: Library & Learning Resources Committee

RE: UMR Library Funding Goals

Enclosed are library funding goals developed by the Library & Learning Resources Committee.

The library committee believes that the library and the learning resources it provides must be prominent on this campus and that UMR must be aggressive in exploring new opportunities for our library if we are truly to be Missouri's Technological University.

The underlying philosophy of the plan is

- that in an era of rapid technological change the library must be an integral part of the instructional and research programs at UMR.
- that the library and learning resources at UMR must be state-of-the-art and must be continually updated.

The committee recommends

- that the budget in the near term (by 1995) be brought up to 3.5% and in the long term (by 2000) to 5.0% of the total educational and general (E&G) expenditures.

DRAFT

UMR LIBRARY FUNDING GOALS

I. UMR LIBRARY AT THE CROSSROADS

As a learning resource center the UMR library is an integral part of the campus. If UMR is to be Missouri's Technological University its resources must reflect this commitment. Library resources generally are an important indicator of institutional quality.

The library is presently at a crossroads. Currently, academic university libraries are in the process of changing. New technologies have opened up a whole new world for academic research and the "electronic library" of the future is upon us now. The library's traditional mission as exclusively keeper of books is no longer valid. The academic library must participate in more cooperative ventures in support of its academic activities. Rather than thinking of the library as an individual unit, the campus must view it as part of a national network library system.

Faculty, students, and administrators must accept and support the library's growing need for funding, not only for the books, and journals, but also for computer systems and telecommunications. Without them, the UMR library will become obsolete. The challenge is to fund the library of the future which will provide the growing resource needs facing the instructional and research programs of the students and faculty.

Therefore, the library and learning resource committee suggests a realistic level of commitment that the UMR campus should provide its library for the next 5 to 10 years.

II. LIBRARY FUNDING IN PERSPECTIVE

The budget in the near term (by 1995) should be brought up to 3.5% and in the long term (by 2000) to 5.0% of the total educational and general (E&G) expenditures.

If the library is to be a vital part of the academic teaching and research at UMR its budget must be radically changed. An underfunded library has an impact on the entire academic program at UMR. Table I shows the breakdown of the funds for the UMR library budgets from 1980 to 1990 as a percentage of E&G expenditures. As shown, there has been a continual decline in the percentage of campus funds devoted

to the library. This has adversely affected its performance. Because of the decline in funding, journal subscriptions have been terminated, book acquisitions have been reduced and vital equipment has not been updated for years. For example, of the roughly 2000 journals, 500 subscriptions, totaling \$108,663.00, were canceled in 1989, 72 subscriptions, totaling \$55,045.00, were canceled in 1990.

The Statistical Norms for College and University Libraries for FY85 indicates that the present level of funding for the UMR library places it in the 5th percentile among U.S. academic university libraries. As reported by the Management Ratios 4 for Colleges and Universities for FY88, the funding range of all academic libraries in the U.S. consistently falls between 2 and 9 percent of E&G expenditures. Table II lists 20 universities and their library budgets in total dollars and as a percentage of E&G expenditures. It should be pointed out that universities that have large E&G revenues generally have a lower percentage of E&G expenditures for the library budget. However, the total dollar amount is usually great enough to offset the lower percentage. For example, Texas A&M has a library budget of 1% of E&G expenditures but their library budget is roughly 4.7 million dollars. Table III shows a comparison of the total dollars and the percentage of E&G expenditures devoted to libraries of the four UM campuses for 1990-91. As shown UMR's library budget is the lowest of all four campuses.

To accomplish the near and long term goals (3.5%-5.0%) the library committee recommends that funds be reallocated from the total campus E&G expenditures to increase the library's budget.

III. CONCLUSION

The library committee strongly feels that the UMR library is underfunded and that steps must be implemented to correct this situation. A library that meets faculty and student needs must be among a research university's top priorities. In order to avoid unnecessary shortages of equipment and the frustration of annual journal cancellations we must act decisively now. Our trust as the state's technological university is also our mandate to create and maintain a healthy, functioning learning resource center for the future of higher education in Missouri.

TABLE I
UMR LIBRARY BUDGETS (1980-1990)

YEAR	UMR E&G	LIBRARY BUDGET	% E&G
1980-81	28,513,172	905,235	3.17
1981-82	30,508,253	713,390	2.34
1982-83	32,677,225	834,641	2.55
1983-84	34,733,369	848,017	2.44
1984-85	37,234,730	908,857	2.44
1985-86	39,544,127	944,192	2.39
1986-87	42,306,159	956,263	2.26
1987-88	44,400,064	978,271	2.20
1988-89	46,243,258	989,051	2.14
1989-90	49,645,633	1,098,416	2.21

TABLE II
UNIVERSITY LIBRARY BUDGETS FOR FY88

UNIVERSITY	LIBRARY BUDGET	%E&G
U of California - Berkeley	29,460,000	5%
U of Colorado - Denver	4,347,000	9%
Cornell	13,548,000	4%
U of Florida	10,878,000	2%
Georgia I Tech	4,628,000	2%
U of Illinois - Urbana	15,531,000	3%
Iowa State	8,475,000	3%
Kansas State	4,665,000	3%
U of Michigan	19,458,000	3%
U of Mississippi	4,062,000	6%
Ohio State	18,735,000	3%
U of Oklahoma	5,144,000	4%
Penn State U	13,794,000	3%
U of Tennessee - Knoxville	5,820,000	2%
Old Dominion U	3,132,000	4%
Rensselaer Polyt I	2,500,000	2%
Stanford	28,380,000	4%
Texas A&M	4,743,000	1%
U of Virginia	13,905,000	5%
U of Wisconsin - Madison	20,349,000	3%

TABLE III

UM LIBRARY BUDGETS (1990-1991)

CAMPUS	E&G	LIBRARY BUDGET	% E&G
UMC	216,818,699	7,741,542	3.57
UMKC	95,098,101	3,183,501	3.35
UMR	52,430,233	1,178,113	2.25
UMSL	57,684,198	2,436,117	4.22

Level	Ctl	Num	5th	15th	25th	Percentile 50th	75th	85th	95th
Item N158									
Library expenditures % of E & G Expenditures									
AA	P	862	1	2	2	3	4	5	6
	I	249	0	1	1	3	4	6	11
BA	P	112	2	3	4	4	5	6	8
	I	545	2	2	3	3	4	5	6
DR	P	108	2	3	3	3	4	5	6
	I	56	2	2	2	4	5	5	6
MA	P	253	2	3	3	4	5	5	7
	I	157	2	2	3	4	5	6	7

From: Library Management Ratios, National Data Service for Higher Education.
 ed. John Minter
 (Based on HEGIS/IPEDS data nationwide)

Attachment III.B

Rank	Institution		Rank	Institution	
1	Southern Methodist	2,028,059	61	North Carolina, Greensboro	747,673
2	Ottawa	1,900,943	62	Toledo	744,560
3	Calgary	1,781,651	63	Marquette	743,097
4	Wisconsin, Milwaukee	1,684,181	64	Carnegie-Mellon	740,482
5	Claremont	1,680,881	65	Idaho State	740,252
6	Auburn	1,582,126	66	Maine, Orono	716,790
7	George Washington	1,571,751	67	Idaho	715,103
8	Bowling Green State	1,557,668	68	Clemson	689,467
9	Georgia State	1,535,309	69	Texas Christian	684,099
10	Fordham	1,466,695	70	Texas, Arlington	680,383
11	Ohio University	1,430,939	71	Alaska	652,408
12	Windsor	1,392,187	72	East Texas State	648,052
13	SUNY-Binghamton	1,368,348	73	Montana	609,931
14	West Virginia	1,350,616	74	Northeastern	595,263
15	Baylor	1,312,995	75	Old Dominion	584,580
16	Miami, Ohio	1,312,101	76	New Orleans	542,063
17	Arkansas, Fayetteville	1,274,232	77	North Dakota	541,004
18	Northern Illinois	1,246,648	78	Missouri, St. Louis	529,697
19	South Florida	1,246,567	79	San Francisco	522,967
20	Boston College	1,144,959	80	Middle Tennessee State	518,096
21	Texas Tech.	1,296,659	81	American	515,853
22	Illinois State	1,137,121	82	Andrews	511,648
23	Kansas State	1,130,522	83	Northern Colorado	506,730
24	Oregon State	1,122,248	84	Florida Atlantic	494,776
25	Denver	1,120,055	85	Montana State	494,738
26	Catholic	1,106,675	86	Maryland, Baltimore Co.	479,703
27	William and Mary	1,088,471	87	Drexel University	478,396
28	Memphis State	1,086,155	88	Clark	475,021
29	North Texas	1,072,076	89	Texas, Dallas	457,812
30	Indiana State	1,070,350	90	Calif. Institute of Tech.	455,561
31	Louisville	1,062,064	91	Drake University	440,752
32	Loyola, Chicago	1,030,953	92	Adelphi	439,768
33	Vermont	999,740	93	Teachers College	436,587
34	Hofstra	989,913	94	Northern Arizona	435,136
35	Western Michigan	988,752	95	South Dakota State	422,093
36	Wyoming	978,388	96	Missouri, Rolla	417,864
37	Ball State	967,393	97	North Dakota State	417,776
38	St. John's	966,558	98	South Dakota	406,350
39	New Brunswick	960,316	99	Pacific	401,879
40	New Hampshire	940,684	100	Duquesne	380,244
41	Lehigh	937,807	101	Rensselaer Polytechnic	378,488
42	Calif., Santa Cruz	934,527	102	Illinois Inst. of Tech.	369,436
43	Rhode Island	902,706	103	Tennessee Tech.	340,978
44	Yeshiva	874,421	104	Louisiana Tech	322,003
45	Missouri, Kansas City	868,231	105	Loma Linda	273,707
46	Alabama, Birmingham	865,308	106	Colorado School of Mines	247,551
47	Virginia Commonwealth	860,013	107	Mississippi College	229,473
48	Brandeis	846,510	108	Loma Linda, Riverside	206,643
49	Portland State University	826,411	109	Clarkson, Educ.Res.Center	191,455
50	Southern Mississippi	824,402	110	Polytechnic University	185,690
51	New Mexico State	807,375	111	Florida Inst. of Tech.	104,303
52	Utah State	801,067	112	SUNY-Coll. Env. Sci. & For.	99,593
53	Mississippi	793,688	113	Hahnemann	85,164
54	Tulsa	793,348	114	Nova University	41,459
55	Mississippi State	788,747			
56	Akron	786,075			
57	Nevada, Reno	781,102			
58	St. Louis	759,478			
59	Cleveland State	755,382			
60	Texas Woman's	754,206			

These tables were prepared by the Association for College and Research Libraries and represent 114 institutions whose libraries rank just below the 100+ members of the Association of Research Libraries (which include UM, Michigan, Illinois, Stanford and like institutions.)

RANK ORDER TABLE 5: MATERIALS EXPENDITURES

Rank	Institution		Rank	Institution	
1	Loyola, Chicago	\$5,851,999	61	North Carolina, Greensboro	\$1,325,919
2	Auburn	\$3,242,845	62	Middle Tennessee State	\$1,290,117
3	South Florida	\$2,852,353	63	Calif. Institute of Tech.	\$1,289,004
4	Tulsa	\$2,799,969	64	Florida Atlantic	\$1,254,169
5	Boston College	\$2,778,499	65	Nevada, Reno	\$1,226,341
6	Wyoming	\$2,747,484	66	Rensselaer Polytechnic	\$1,212,162
7	George Washington	\$2,518,709	67	Cleveland State	\$1,193,000
8	Calgary	\$2,464,738	68	American	\$1,133,043
9	SUNY-Binghamton	\$2,451,911	69	New Brunswick	\$1,091,303
10	Ottawa	\$2,393,334	70	Maryland, Baltimore Co.	\$1,091,236
11	Virginia Commonwealth	\$2,391,675	71	Denver	\$1,074,792
12	Louisville	\$2,280,297	72	Northern Colorado	\$1,071,847
13	Arkansas, Fayetteville	\$2,266,581	73	Idaho	\$1,045,885
14	Southern Methodist	\$2,250,199	74	Missouri, Kansas City	\$1,029,814
15	Miami, Ohio	\$2,241,697	75	Texas Christian	\$1,018,304
16	Calif., Santa Cruz	\$2,160,673	76	New Mexico State	\$1,013,682
17	Georgia State	\$2,125,484	77	Alaska	\$934,038
18	Ohio University	\$2,062,017	78	Montana State	\$924,824
19	St. John's	\$2,060,164	79	Indiana State	\$903,390
20	Vermont	\$2,028,996	80	Drexel University	\$903,278
21	Kansas State	\$1,977,717	81	Catholic	\$897,626
22	Southern Mississippi	\$1,975,816	82	Missouri, St. Louis	\$856,222
23	Clemson	\$1,956,690	83	North Dakota	\$846,694
24	Northern Illinois	\$1,952,540	84	Idaho State	\$808,705
25	William and Mary	\$1,944,373	85	Adelphi	\$774,562
26	Memphis State	\$1,917,638	86	St. Louis	\$763,839
27	Lehigh	\$1,914,859	87	New Orleans	\$760,773
28	Toledo	\$1,910,936	88	South Dakota State	\$732,934
29	Texas Tech.	\$2,148,345	89	North Dakota State	\$723,217
30	Akron	\$1,872,070	90	Montana	\$692,070
31	Oregon State	\$1,871,400	91	South Dakota	\$683,782
32	West Virginia	\$1,776,819	92	Illinois Inst. of Tech.	\$671,088
33	Rhode Island	\$1,774,000	93	Clark	\$627,514
34	Baylor	\$1,758,162	94	Andrews	\$608,587
35	Fordham	\$1,758,076	95	Tennessee Tech.	\$577,137
36	Wisconsin, Milwaukee	\$1,709,581	96	Loma Linda	\$573,537
37	Mississippi	\$1,687,120	97	San Francisco	\$563,401
38	Northern Arizona	\$1,675,699	98	Clarkson, Educ.Res.Center	\$511,989
39	Portland State University	\$1,665,509	99	Pacific	\$510,521
40	Hofstra	\$1,634,753	100	Drake University	\$506,924
41	Bowling Green State	\$1,610,696	101	Texas Woman's	\$466,619
42	Illinois State	\$1,602,312	102	East Texas State	\$457,551
43	Texas, Arlington	\$1,587,124	103	Louisiana Tech	\$442,056
44	Maine, Orono	\$1,584,410	104	Colorado School of Mines	\$438,604
45	Alabama, Birmingham	\$1,521,702	105	Missouri, Rolla	\$422,950
46	Utah State	\$1,486,661	106	Duquesne	\$411,144
47	Carnegie-Mellon	\$1,469,883	107	Polytechnic University	\$398,237
48	Western Michigan	\$1,435,134	108	Florida Inst. of Tech.	\$393,928
49	Northeastern	\$1,417,681	109	Hahnemann	\$351,361
50	Brandeis	\$1,417,220	110	Nova University	\$320,322
51	Windsor	\$1,406,000	111	SUNY-Coll. Env. Sci. & For.	\$287,057
52	Old Dominion	\$1,395,422	112	Teachers College	\$236,867
53	Ball State	\$1,394,439	113	Loma Linda, Riverside	\$224,466
54	Mississippi State	\$1,391,904	114	Mississippi College	\$115,918
55	New Hampshire	\$1,371,368			
56	Texas, Dallas	\$1,341,352			
57	Marquette	\$1,340,373			
58	Claremont	\$1,338,393			
59	Yeshiva	\$1,330,553			
60	North Texas	\$1,330,029			

Attachment III.B

Rank	Institution		Rank	Institution	
1	Calgary	\$8,520,304	61	Claremont	\$3,236,637
2	George Washington	\$8,447,017	62	Calif. Institute of Tech.	\$3,211,086
3	South Florida	\$7,952,934	63	Missouri, Kansas City	\$3,111,024
4	Ottawa	\$7,876,523	64	American	\$3,090,949
5	Auburn	\$7,668,733	65	New Hampshire	\$3,027,033
6	Boston College	\$7,516,497	66	Florida Atlantic	\$3,017,356
7	Louisville	\$7,355,737	67	Mississippi State	\$2,954,050
8	Virginia Commonwealth	\$7,342,961	68	New Mexico State	\$2,951,140
9	Calif., Santa Cruz	\$6,056,573	69	Indiana State	\$2,916,476
10	SUNY-Binghamton	\$6,004,181	70	Utah State	\$2,799,383
11	Georgia State	\$5,904,738	71	Northern Colorado	\$2,755,421
12	Loyola, Chicago	\$5,851,999	72	Catholic	\$2,681,794
13	Bowling Green State	\$5,527,560	73	Maryland, Baltimore Co.	\$2,667,331
14	Northern Illinois	\$5,516,634	74	Idaho	\$2,622,306
15	William and Mary	\$5,419,629	75	Middle Tennessee State	\$2,590,782
16	Vermont	\$5,328,660	76	Rensselaer Polytechnic	\$2,578,977
17	Wisconsin, Milwaukee	\$5,282,848	77	Texas, Arlington	\$2,466,388
18	Miami, Ohio	\$5,231,481	78	Texas Christian	\$2,458,115
19	Ball State	\$5,146,382	79	Adelphi	\$2,429,713
20	Kansas State	\$5,136,149	80	St. Louis	\$2,417,548
21	Ohio University	\$5,108,600	81	New Orleans	\$2,273,631
22	Southern Methodist	\$5,069,024	82	Drexel University	\$2,211,456
23	Wyoming	\$4,982,642	83	Montana State	\$2,197,650
24	St. John's	\$4,844,244	84	Missouri, St. Louis	\$2,171,981
25	Illinois State	\$4,797,833	85	Denver	\$2,097,485
26	Windsor	\$4,722,000	86	Montana	\$1,989,145
27	Memphis State	\$4,715,017	87	North Dakota	\$1,821,000
28	Arkansas, Fayetteville	\$4,702,046	88	Idaho State	\$1,806,603
29	Tulsa	\$4,599,917	89	North Dakota State	\$1,655,078
30	Oregon State	\$4,570,806	90	Texas Woman's	\$1,652,281
31	Northeastern	\$4,522,113	91	South Dakota State	\$1,635,599
32	Toledo	\$4,506,425	92	Teachers College	\$1,619,964
33	Alabama, Birmingham	\$4,443,386	93	San Francisco	\$1,605,468
34	Fordham	\$4,397,673	94	Clark	\$1,576,688
35	Portland State University	\$4,381,695	95	Tennessee Tech.	\$1,552,934
36	Clemson	\$4,377,362	96	East Texas State	\$1,430,597
37	Akron	\$4,372,573	97	Andrews	\$1,427,222
38	Baylor	\$4,360,717	98	Pacific	\$1,420,664
39	Texas Tech.	\$4,959,380	99	Loma Linda	\$1,400,377
40	Western Michigan	\$4,279,653	100	Illinois Inst. of Tech.	\$1,387,446
41	Rhode Island	\$4,270,900	101	South Dakota	\$1,372,519
42	West Virginia	\$4,182,941	102	Louisiana Tech	\$1,243,150
43	Alaska	\$4,098,123	103	Drake University	\$1,206,310
44	Hofstra	\$4,095,590	104	Hahnemann	\$1,131,637
45	Southern Mississippi	\$4,077,608	105	Polytechnic University	\$1,044,868
46	Mississippi	\$3,920,166	106	Clarkson, Educ.Res.Center	\$1,036,763
47	Northern Arizona	\$3,870,492	107	Missouri, Rolla	\$983,937
48	North Texas	\$3,849,256	108	Colorado School of Mines	\$918,420
49	North Carolina, Greensboro	\$3,809,608	109	Duquesne	\$879,623
50	Lehigh	\$3,705,926	110	Florida Inst. of Tech.	\$878,452
51	New Brunswick	\$3,702,763	111	Loma Linda, Riverside	\$722,386
52	Brandeis	\$3,651,945	112	SUNY-Coll. Env. Sci. & For.	\$691,521
53	Carnegie-Mellon	\$3,651,874	113	Nova University	\$623,002
54	Old Dominion	\$3,640,048	114	Mississippi College	\$338,705
55	Maine, Orono	\$3,622,507			
56	Nevada, Reno	\$3,477,459			
57	Yeshiva	\$3,476,443			
58	Marquette	\$3,440,772			
59	Cleveland State	\$3,391,078			
60	Texas, Dallas	\$3,290,657			

RANK ORDER TABLE 13: TOTAL ITEMS LOANED

Rank	Institution		Rank	Institution	
1	Northern Illinois	47,818	61	Tulsa	6,123
2	Wyoming	28,186	62	Carnegie-Mellon	6,061
3	Ohio University	23,678	63	Texas Woman's	6,032
4	Illinois State	23,579	64	Utah State	6,009
5	Virginia Commonwealth	20,637	65	Texas Christian	5,804
6	Kansas State	16,978	66	Old Dominion	5,591
7	Lehigh	16,510	67	William and Mary	5,565
8	Auburn	16,375	68	East Texas State	5,512
9	Western Michigan	15,434	69	Alaska	5,422
10	New Mexico State	14,643	70	Northeastern	5,199
11	Calgary	14,557	71	Brandeis	5,181
12	Texas Tech.	14,497	72	South Dakota State	5,139
13	West Virginia	14,421	73	Wisconsin, Milwaukee	5,124
14	Louisville	14,262	74	Clark	5,003
15	Idaho	13,924	75	North Carolina, Greensboro	4,769
16	North Texas	13,903	76	Yeshiva	4,525
17	Alabama, Birmingham	13,642	77	Memphis State	4,496
18	Ball State	13,172	78	Calif. Institute of Tech.	4,418
19	Ottawa	13,038	79	Texas, Dallas	4,401
20	Denver	12,928	80	South Dakota	4,172
21	Maine, Orono	12,867	81	Drake University	4,031
22	North Dakota	12,657	82	Loma Linda	3,756
23	South Florida	12,327	83	St. John's	3,636
24	Rhode Island	12,280	84	Hahnemann	3,487
25	Vermont	11,556	85	Colorado School of Mines	3,339
26	Akron	11,432	86	Windsor	3,262
27	Cleveland State	11,042	87	New Brunswick	3,251
28	Toledo	10,972	88	Catholic	3,162
29	SUNY-Binghamton	10,909	89	American	3,159
30	Georgia State	10,581	90	Southern Mississippi	3,084
31	Missouri, St. Louis	10,579	91	Illinois Inst. of Tech.	2,960
32	North Dakota State	10,560	92	Pacific	2,796
33	Northern Colorado	10,418	93	New Orleans	2,600
34	Arkansas, Fayetteville	10,390	94	SUNY-Coll. Env. Sci. & For.	2,178
35	Miami, Ohio	10,388	95	Drexel University	2,117
36	Bowling Green State	10,238	96	Middle Tennessee State	2,089
37	Maryland, Baltimore Co.	10,212	97	Tennessee Tech.	1,920
38	Boston College	10,133	98	Andrews	1,872
39	Missouri, Kansas City	10,063	99	Hofstra	1,739
40	George Washington	10,022	100	Claremont	1,642
41	Oregon State	9,864	101	Teachers College	1,629
42	Loyola, Chicago	9,413	102	Clarkson, Educ.Res.Center	1,601
43	Indiana State	9,068	103	Florida Inst. of Tech.	1,586
44	Texas, Arlington	8,956	104	St. Louis	1,527
45	Southern Methodist	8,667	105	Duquesne	1,266
46	New Hampshire	8,430	106	Adelphi	1,241
47	Montana State	8,414	107	Idaho State	1,145
48	Nevada, Reno	7,848	108	Nova University	934
49	Portland State University	7,686	109	Louisiana Tech	801
50	Montana	7,641	110	Fordham	701
51	Marquette	7,334	111	Loma Linda, Riverside	661
52	Northern Arizona	7,320	112	San Francisco	660
53	Mississippi State	6,951	113	Polytechnic University	323
54	Mississippi	6,861	114	Mississippi College	117
55	Florida Atlantic	6,838			
56	Missouri, Rolla	6,765			
57	Rensselaer Polytechnic	6,650			
58	Baylor	6,534			
59	Clemson	6,498			
60	Calif., Santa Cruz	6,174			

Rank	Institution		Rank	Institution	
1	Northern Illinois	34,755	61	New Hampshire	4,025
2	North Dakota	13,888	62	Clarkson, Educ.Res.Center	4,004
3	Louisville	12,281	63	Southern Mississippi	4,003
4	North Dakota State	11,927	64	Baylor	3,974
5	Cleveland State	10,929	65	Virginia Commonwealth	3,925
6	South Florida	10,897	66	Northern Arizona	3,865
7	Illinois State	10,382	67	Louisiana Tech	3,828
8	Akron	9,822	68	North Texas	3,804
9	Kansas State	9,795	69	Arkansas, Fayetteville	3,770
10	Texas, Arlington	9,352	70	Clark	3,730
11	Wisconsin, Milwaukee	9,180	71	Montana State	3,692
12	Calif., Santa Cruz	8,950	72	Carnegie-Mellon	3,689
13	Ohio University	8,739	73	Nova University	3,414
14	Missouri, Kansas City	8,708	74	Old Dominion	3,414
15	Maine, Orono	8,660	75	Hahnemann	3,285
16	Florida Atlantic	8,541	76	Drake University	3,162
17	Rhode Island	7,953	77	Florida Inst. of Tech.	3,160
18	Ball State	7,939	78	New Brunswick	3,045
19	Loyola, Chicago	7,649	79	William and Mary	3,003
20	Utah State	7,568	80	Claremont	2,867
21	Lehigh	7,391	81	St. Louis	2,861
22	Wyoming	7,198	82	South Dakota	2,816
23	Maryland, Baltimore Co.	7,191	83	Georgia State	2,802
24	Western Michigan	6,860	84	Auburn	2,752
25	New Mexico State	6,757	85	Pacific	2,741
26	Missouri, Rolla	6,730	86	Windsor	2,607
27	Clemson	6,700	87	Northeastern	2,576
28	Memphis State	6,600	88	Texas Christian	2,344
29	Tulsa	6,553	89	East Texas State	2,300
30	Montana	6,486	90	Colorado School of Mines	2,266
31	Calgary	6,373	91	Hofstra	2,228
32	Miami, Ohio	6,179	92	New Orleans	2,200
33	Toledo	6,080	93	American	2,169
34	Alabama, Birmingham	6,004	94	Adelphi	2,081
35	Oregon State	6,002	95	Polytechnic University	2,076
36	Northern Colorado	5,989	96	North Carolina, Greensboro	1,993
37	Vermont	5,964	97	Denver	1,970
38	Idaho	5,882	98	Illinois Inst. of Tech.	1,900
39	Texas Tech.	5,800	99	Loma Linda	1,853
40	Marquette	5,724	100	Portland State University	1,830
41	Alaska	5,565	101	Tennessee Tech.	1,767
42	Boston College	5,557	102	Andrews	1,674
43	Brandeis	5,281	103	SUNY-Coll. Env. Sci. & For.	1,661
44	Ottawa	5,205	104	San Francisco	1,657
45	Indiana State	5,065	105	St. John's	1,542
46	SUNY-Binghamton	5,064	106	Catholic	1,511
47	West Virginia	5,005	107	Idaho State	1,375
48	South Dakota State	4,987	108	Fordham	1,350
49	George Washington	4,955	109	Teachers College	1,034
50	Yeshiva	4,904	110	Middle Tennessee State	970
51	Bowling Green State	4,741	111	Duquesne	584
52	Mississippi State	4,723	112	Texas, Dallas	403
53	Drexel University	4,683	113	Loma Linda, Riverside	268
54	Missouri, St. Louis	4,663	114	Mississippi College	171
55	Mississippi	4,641			
56	Texas Woman's	4,525			
57	Rensselaer Polytechnic	4,421			
58	Calif. Institute of Tech.	4,323			
59	Nevada, Reno	4,297			
60	Southern Methodist	4,233			

RANK ORDER TABLE 17: TOTAL STAFF

Rank	Institution		Rank	Institution	
1	George Washington	249	61	Lehigh	91
2	Calgary	246	62	Old Dominion	89
3	South Florida	222	63	Nevada, Reno	88
4	Ottawa	212	64	Southern Mississippi	88
5	Louisville	204	65	Adelphi	88
6	Ball State	194	66	Alaska	87
7	Auburn	193	67	Maine, Orono	86
8	Boston College	184	68	Claremont	86
9	Virginia Commonwealth	182	69	Florida Atlantic	85
10	Northern Illinois	178	70	Tulsa	81
11	North Texas	171	71	St. Louis	80
12	St. John's	170	72	Texas, Dallas	79
13	Arkansas, Fayetteville	170	73	Yeshiva	78
14	Georgia State	168	74	Drexel University	76
15	West Virginia	167	75	New Orleans	76
16	Northeastern	162	76	Northern Colorado	75
17	Miami, Ohio	152	77	Idaho	72
18	Texas Tech.	152	78	Denver	71
19	Loyola, Chicago	150	79	Missouri, St. Louis	70
20	Bowling Green State	149	80	Utah State	68
21	Illinois State	149	81	Texas Christian	67
22	Kansas State	148	82	Texas Woman's	66
23	Ohio University	144	83	Teachers College	65
24	Western Michigan	142	84	Montana State	64
25	Alabama, Birmingham	140	85	Maryland, Baltimore Co.	64
26	Baylor	139	86	North Dakota State	63
27	Memphis State	138	87	Middle Tennessee State	61
28	Southern Methodist	136	88	Rensselaer Polytechnic	61
29	Oregon State	135	89	Calif. Institute of Tech.	60
30	SUNY-Binghamton	134	90	East Texas State	60
31	Vermont	133	91	North Dakota	59
32	Wisconsin, Milwaukee	132	92	Tennessee Tech.	58
33	Hofstra	128	93	Louisiana Tech	57
34	Windsor	123	94	Duquesne	55
35	Fordham	122	95	Idaho State	52
36	Calif., Santa Cruz	121	96	Clark	50
37	Portland State University	120	97	Illinois Inst. of Tech.	50
38	Wyoming	118	98	Andrews	50
39	Toledo	115	99	Pacific	46
40	Cleveland State	113	100	Drake University	42
41	Missouri, Kansas City	113	101	South Dakota State	38
42	Akron	112	102	South Dakota	37
43	Rhode Island	111	103	Loma Linda	35
44	New Hampshire	111	104	San Francisco	34
45	New Brunswick	110	105	Missouri, Rolla	29
46	William and Mary	110	106	SUNY-Coll. Env. Sci. & For.	29
47	Indiana State	108	107	Hahnemann	29
48	Clemson	107	108	Polytechnic University	28
49	Marquette	102	109	Florida Inst. of Tech.	28
50	Catholic	101	110	Colorado School of Mines	25
51	Brandeis	101	111	Loma Linda, Riverside	24
52	American	99	112	Clarkson, Educ.Res.Center	23
53	New Mexico State	98	113	Nova University	20
54	Northern Arizona	98	114	Mississippi College	16
55	Mississippi State	98			
56	Texas, Arlington	98			
57	Carnegie-Mellon	94			
58	Montana	93			
59	North Carolina, Greensboro	93			
60	Mississippi	92			

VOLUMES ADDED

1976-77	14,197
1977-78	11,772
1978-79	13,153
1979-80	14,834
1980-81	15,517
1981-82	14,575
1982-83	14,098
1983-84	11,204
1984-85	11,983
1985-86	17,727
1986-87	14,016
1987-88	9,750
1988-89	8,407
1989-90	6,790

RANK ORDER TABLE 2: VOLUMES ADDED (GROSS)

Rank	Institution		Rank	Institution	
1	Auburn	65,204	61	Florida Atlantic	20,804
2	South Florida	56,039	62	Maryland, Baltimore Co.	20,190
3	Boston College	53,014	63	New Hampshire	19,987
4	Ohio University	51,443	64	Memphis State	19,960
5	Southern Methodist	50,878	65	New Mexico State	19,906
6	Bowling Green State	50,713	66	Texas, Arlington	19,845
7	Georgia State	46,577	67	Middle Tennessee State	18,854
8	Ottawa	45,159	68	West Virginia	17,825
9	Calif., Santa Cruz	43,400	69	Northern Colorado	17,728
10	Wyoming	42,515	70	Idaho State	17,225
11	Loyola, Chicago	41,493	71	San Francisco	16,598
12	SUNY-Binghamton	41,320	72	Missouri, St. Louis	16,259
13	Tulsa	40,078	73	Old Dominion	16,103
14	George Washington	39,943	74	Andrews	15,497
15	Northern Illinois	39,019	75	New Orleans	14,994
16	Virginia Commonwealth	38,242	76	North Dakota	14,880
17	Wisconsin, Milwaukee	34,220	77	Calif. Institute of Tech.	14,832
18	Vermont	33,760	78	South Dakota State	13,968
19	Miami, Ohio	33,636	79	American	13,819
20	Kansas State	33,170	80	Texas Woman's	13,383
21	Alabama, Birmingham	33,039	81	St. Louis	13,304
22	Texas Tech.	32,386	82	Montana	13,101
23	Illinois State	32,260	83	Texas, Dallas	12,848
24	Louisville	32,060	84	Catholic	12,534
25	Arkansas, Fayetteville	31,891	85	Rensselaer Polytechnic	11,676
26	Claremont	31,646	86	East Texas State	11,481
27	Ball State	31,317	87	Duquesne	10,798
28	Lehigh	31,228	88	Texas Christian	10,784
29	Rhode Island	31,193	89	Clark	10,672
30	William and Mary	30,809	90	Drexel University	10,487
31	Brandeis	30,574	91	South Dakota	9,884
32	Mississippi	30,224	92	Tennessee Tech.	9,097
33	Denver	30,195	93	Florida Inst. of Tech.	9,032
34	Indiana State	30,150	94	Adelphi	8,872
35	Southern Mississippi	29,511	95	North Dakota State	8,843
36	Western Michigan	29,397	96	Louisiana Tech	8,621
37	Fordham	29,386	97	Missouri, Rolla	8,407
38	Utah State	29,365	98	Drake University	8,270
39	Cleveland State	29,070	99	Nova University	8,250
40	Portland State University	27,429	100	Pacific	7,650
41	North Texas	27,289	101	Montana State	7,243
42	Marquette	27,040	102	Illinois Inst. of Tech.	7,073
43	Toledo	26,777	103	Colorado School of Mines	6,284
44	Northern Arizona	26,571	104	Loma Linda, Riverside	6,035
45	Akron	26,266	105	Loma Linda	6,009
46	Maine, Orono	26,140	106	Mississippi College	5,019
47	Yeshiva	25,873	107	Clarkson, Educ. Res. Center	4,781
48	St. John's	25,636	108	Hahnemann	4,388
49	Carnegie-Mellon	25,503	109	Polytechnic University	3,800
50	North Carolina, Greensboro	24,847	110	Teachers College	3,710
51	Hofstra	24,287	111	SUNY-Coll. Env. Sci. & For.	2,503
52	Missouri, Kansas City	24,205		Baylor	U/A
53	Idaho	23,265		Calgary	U/A
54	New Brunswick	23,176		Windsor	U/A
55	Clemson	22,349			
56	Northeastern	22,082			
57	Oregon State	22,022			
58	Mississippi State	21,766			
59	Alaska	21,592			
60	Nevada, Reno	21,010			

U/A - Unavailable



UNIVERSITY OF MISSOURI-ROLLA

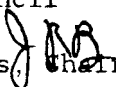
Attachment III.C

School of Engineering

Office of the Dean
101 Engineering Research
Rolla, Missouri 65401-0249
Telephone (314) 341-4151

October 25, 1990

MEMO TO: Academic Council

FROM: Jerry Bayless,  Chairman, Public Occasions Committee

RE: Public Event Dates and Academic Calendar

The public dates for 1991-92 submitted with the agenda were approved by the Public Occasions Committee after receiving input from the subcommittee chairs. On October 16, I was informed that the 1991 football schedule has been revised resulting in a home game on October 5 but not on October 12. It is requested that the dates for 1991 Homecoming be changed to October 4 and 5. No other changes are needed.

I believe the 1992-93 calendar presented for your consideration and the 1991-92 calendar approved a year ago addresses the referral concerning summer school scheduling in that at least two weeks is provided between the end of the summer session and the beginning of the fall semester for both 1991 and 92.

JRB:sh

PUBLIC OCCASIONS DATES FOR 1991-92

Industry Career Day.....Thursday, September 26, 1991

Homecoming.....Friday and Saturday
October 11 and 12, 1991

UM-Rolla Day.....Saturday, October 19, 1991

Parents Day.....Saturday, November 2, 1991

Commencement*.....Saturday, December 21, 1991

Science and Engineering Fair.....Friday and Saturday,
March 20 and 21, 1992

Spring Open House.....Saturday, April 11, 1992

Commencement*.....Saturday, May 16, 1992

Summer Open House.....Friday, July 17, 1992

*Approved as part of 1991-92 calendar.

FALL SEMESTER 1992

Fall Semester opens 7:30am	Aug. 18, Tues.
Freshmen Orientation	Aug. 18, Tues.
New Student Orientation and Registration	Aug. 19, Wed.
Student Registration 8:15am-3:30pm	Aug. 20, Thurs.
Classwork begins 7:30am	Aug. 24, Mon.
Labor Day Holiday	Sept. 7, Mon.
Mid-Semester	Oct. 17, Sat.
Thanksgiving vacation begins 7:30am	Nov. 25, Wed.
Thanksgiving vacation ends 7:30 am	Nov. 30, Mon.
Last Class Day	Dec. 11, Fri.
Reading Day	Dec. 12, Sat.
Final Examinations begin 8:00am	Dec. 14, Mon.
Final Examinations end 5:30 pm	Dec. 18, Fri.
Fall semester closes 5:30 pm	Dec. 18, Fri.
Fall Commencement	Dec. 19, Sat.

SPRING SEMESTER 1993

Spring Semester opens 7:30am	Jan. 11, Mon.
Student Registration 8:15am-3:30pm	Jan. 11, Mon.
Classwork begins 7:30am	Jan. 13, Wed.
Martin Luther King Jr. Recognition Holiday	Jan. 18, Mon.
Mid-Semester	Mar. 6, Sat.
Spring recess begins 7:30am	Mar. 11, Thurs.
Spring recess ends 7:30am	March 15, Mon.
Spring break begins 7:30am	March 27, Sat.
Spring break ends 7:30am	April 5, Mon.
Last Class Day	May 7, Fri.
Reading Day	May 8, Sat.
Final Examinations begin 8:00am	May 10, Mon.
Final Examinations end 5:30pm	May 14, Fri.
Spring Semester closes 5:30pm	May 14, Fri.
Annual Commencement	May 15, Sat.

*SUMMER SESSION 1993

Summer Session opens 7:30am	June 7, Mon.
Student Registration 8:15am-3:30pm	June 7, Mon.
Classwork begins 7:30am	June 8, Tues.
Independence Day Holiday	July 5, Mon.
Summer Session closes 12:00 noon	July 31, Sat.

*Schedule shows the regular eight-week Summer Session. Other special course sessions may be scheduled.

CLASS SESSIONS (Excluding final examinations)

	M	Tu	W	Th	F	S
Fall Semester	14	16	15	15	15	15
Spring Semester	14	15	16	15	15	15
Summer Semester	6	8	8	8	8	8

NOTE: For the Engineering Education Center, all class sessions, holidays and/or examinations will coincide with the calendar of the University of Missouri-St. Louis evening program. Registration times and dates to be announced later.

The faculty is reminded of the religious and other holidays that a substantial number of students may wish to observe.



UNIVERSITY OF MISSOURI-ROLLA

MEMO TO: Don Askeland
President, Academic Council

DATE: June 14, 1990

FROM: Martin C. Jischke
Chancellor

SUBJECT: Report of UMR Task
Force for Greek Life
Review

A handwritten signature in cursive script, appearing to read 'Martin Jischke', written over the printed name.

I appointed a Task Force for Greek Life Review last October to formulate a statement describing the relationship between the University and the Greek fraternities and sororities. The Task Force was asked to determine the philosophy of the relationship, discuss the commitments and obligations involved, and address specific issues and concerns.

The Task Force has completed its work and a copy of their report to me is attached. I have distributed copies of this report to all Greek social organizations and have asked Vice Chancellor Wendell Ogrosky to implement those recommendations that pertain to the University.

The attached copy of the Task Force report is for the Academic Council's information and comment.

MCJ/rmp

Attachment

RELATIONSHIP STATEMENT: THE UNIVERSITY OF MISSOURI-ROLLA AND THE
SOCIAL FRATERNITIES AND SORORITIES

May 1, 1990

Submitted to: Chancellor Martin C. Jischke

Prepared by: UMR Task Force for Greek Life Review

Dr. Elizabeth Cummins (English), Chair
Mr. Greg Flieg (President, IFC)
Mr. Dave Lewis (President, IRC)
Ms. Tina Casto (Past President, Panhellenic)
Ms. Jenni Peterson (President, Panhellenic)
Ms. Amy Pharr (non-Greek student)
Dr. Barbara Hale (Sorority Advisor)
Dr. John Watson (Fraternity Advisor)
Mr. Bob Wolf (Fraternity Advisor)
Dr. Dale Elifrits (Faculty)
Dr. Harvest Collier (Faculty)
Mr. Robert B. Lewis (Administrative Representative)
Dr. B. Ken Robertson (IFC Advisor)
Mrs. Boo Eversman (Panhellenic Advisor)
Mrs. Linda Martin (Student Activities Representative)
Mr. William Stoltz (Community Representative)
Mr. Mark Potrafka (Student Services Advisor for the
Greek System)
Mrs. Linda Bramel (English), Secretary

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APPENDIX A: SCHOLARSHIP

FIRST-TERM GPA FOR ENTERING FRESHMEN

GPA RANGE	FALL 1989			FALL 1988			FALL 1987-1985		
	Frat Fresh MALE	All Fresh MALE	All Fresh FEMALE	Frat Fresh MALE	All Fresh MALE	All Fresh FEMALE	Frat Fresh MALE	All Fresh MALE	All Fresh FEMALE
3.75-4.00	7.6%	9.8%	9.9%	4.2%	8.1%	6.5%		8.2%	10.6%
3.50-3.74	3.6	3.9	8.9	4.7	6.2	7.0		6.2	5.3
3.25-3.49	8.8	8.6	9.4	9.0	9.0	4.8		6.7	5.8
3.00-3.24	8.0	7.7	17.2	9.4	11.7	12.9		9.8	17.5
2.75-2.99	6.0	8.0	7.4	10.4	11.7	8.1		9.7	6.7
2.50-2.74	13.7	14.1	10.3	14.2	9.5	12.9		11.5	10.5
2.25-2.49	14.9	10.6	10.3	14.6	12.3	12.9		10.9	9.5
2.00-2.24	12.9	10.6	5.4	9.9	9.3	12.9		10.8	13.0
1.75-1.99	7.2	8.1	3.9	6.6	5.1	4.8		6.0	3.2
1.50-1.74	4.4	5.8	3.9	8.5	5.3	5.9		5.9	4.8
< 1.50	12.9	12.5	13.3	8.5	11.6	11.3		14.2	13.1
< 2.00	24.5	26.4	21.1	23.6	22.0	22.0		26.1	21.1
3.50-4.00	11.2	13.7	18.8	8.9	14.3	13.5		14.2	15.9
3.00-3.49	16.8	16.3	26.6	18.4	20.7	17.7		16.5	23.3
2.50-2.99	19.7	22.1	17.7	24.6	21.2	21.0		21.2	17.2
2.00-2.49	27.8	21.2	15.7	24.5	21.6	25.8		21.7	22.5
1.50-1.99	11.6	13.9	7.8	15.1	10.4	10.7		11.9	8.0
< 1.50	12.9	12.5	13.3	8.5	11.6	11.3		14.2	13.1

UM-ROLLA FRATERNITY SCHOLARSHIP DATA

Semester	All Frat Pledge GPA	All Fresh- men GPA	All Frat Active GPA	All Frat GPA	All Res. Hall Men GPA	All Men's GPA
F-89	2.443	2.460	2.588	2.544	2.584	2.657
F-88	2.501	2.510	2.621	2.588	2.690	2.681
F-87	2.446	2.451	2.657	2.593	2.610	2.670
F-86	2.480	2.486	2.581	2.557	2.659	2.674
F-85	2.415	2.442	2.632	2.565	2.610	2.692

UM -ROLLA SORORITY SCHOLARSHIP DATA

	All Soror PledgeGPA	All Fresh- men GPA	All Soror Active GPA	All Soror GPA	All Res. Hall Women GPA	All Women's GPA
F-89	2.702	2.460	2.708	2.707	2.702	2.778
F-88	2.679	2.510	2.854	2.800	2.628	2.803
F-87	2.634	2.451	2.844	2.776	2.608	2.798
F-86	2.696	2.486	2.784	2.761	2.681	2.785
F-85	2.621	2.442	2.789	2.736	2.580	2.738

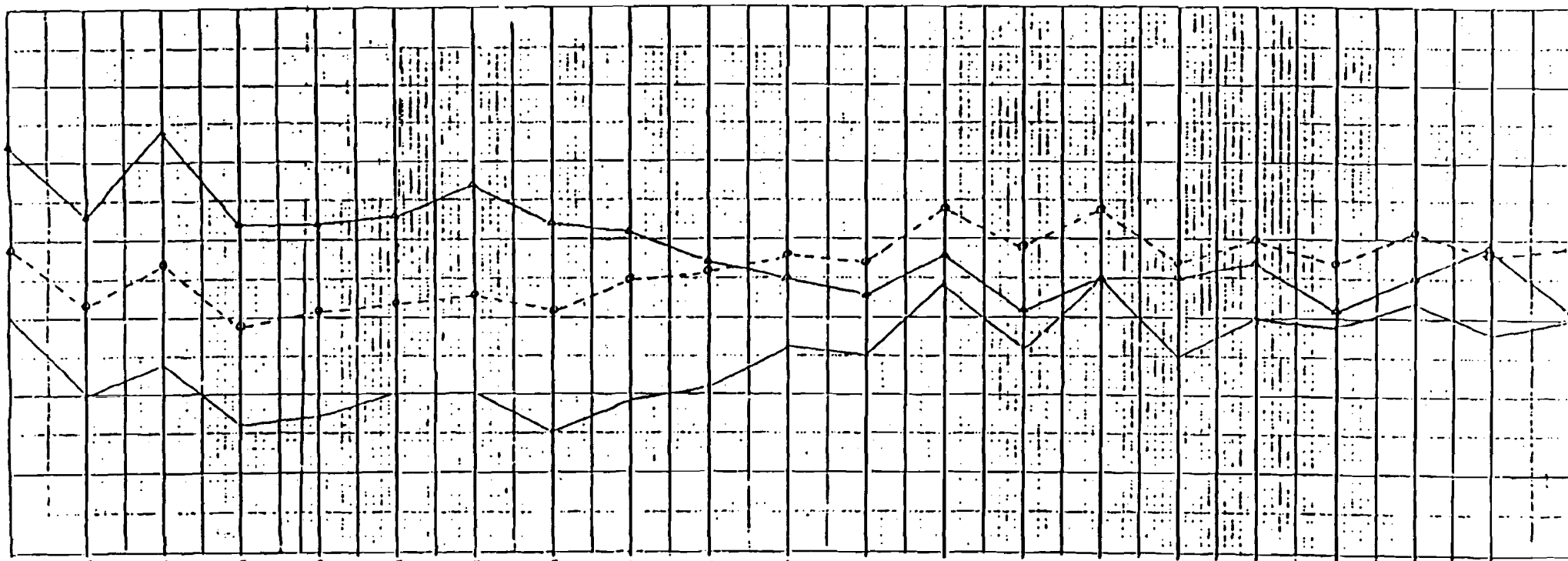
Scholastic Average:

All men's

Men in residence halls

Men in fraternities

From Spring, 1979 to Spring, 1989



o-----o All men's average
 ▲-----▲ Men in residence halls
 ●-----● All fraternities

Scholastic Average:

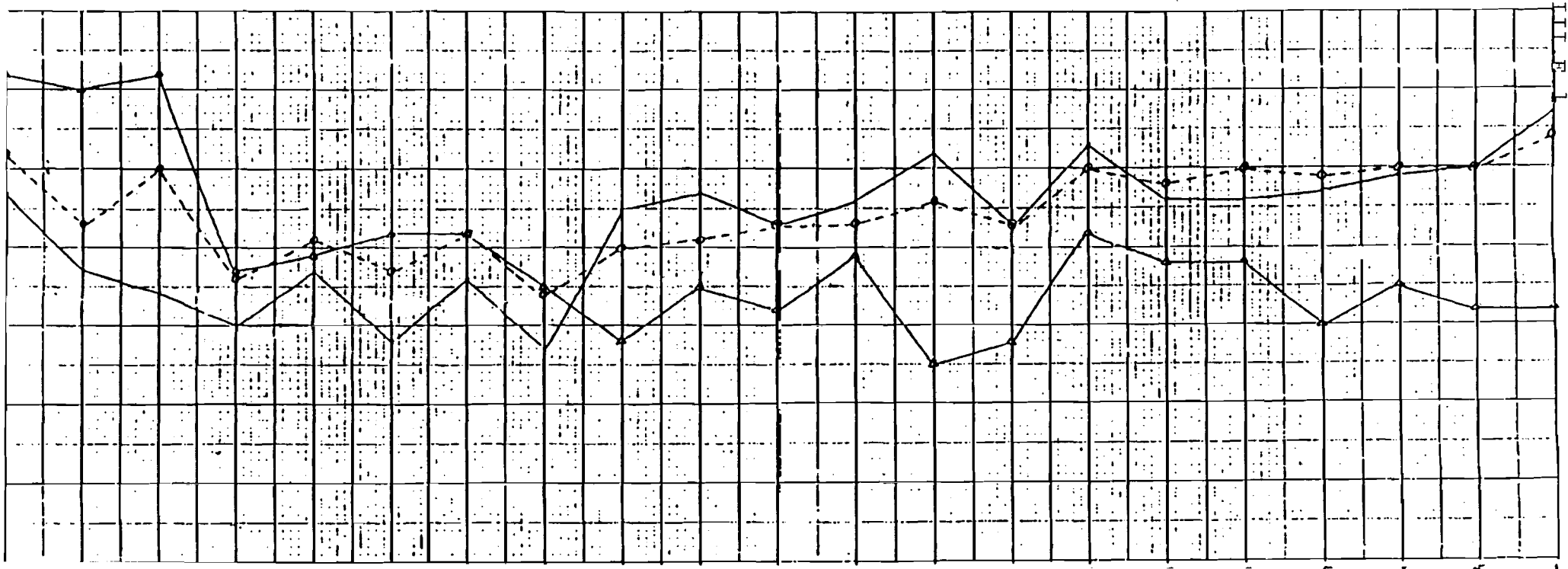
All women's

Women in residence halls

Women in sororities

From Spring, 1979 to Spring, 1989

Attachment



o - - - o All women's average
△ — — — △ Women in residence halls
● — — — ● All sororities

APPENDIX B: LIVING CONDITIONS AND FINANCIAL CONCERNS



UNIVERSITY OF MISSOURI-ROLLA

Freshman Engineering

107 Basic Engineering Building
Rolla, MO 65401-0249
Telephone (314) 341-4974

14 February 1990

TO: Greek Letter Social Organization Faculty Sponsors

FROM: Subcommittee for Facilities
Greek Life Task Force

RE: Questionnaire Regarding Financial and Facility Data

This Subcommittee of the Greek Life Task Force, appointed by Chancellor Jischke last semester, has been asked to summarize financial and facility information about the Greek letter social organizations associated with UMR. To this end, please find here a Facilities Information Survey. Please provide the information required in-so-far-as you feel comfortable and within availability to you. This information will be used by our Subcommittee to construct a characterization of the houses and organizations, in a general sense. Thank you for your assistance, please return the form with data to Barbara Hale, 205 Physics by Monday afternoon (19 February 1990).

s/ C. Dale Elifrits
Barbara Hale
John Watson

FACILITIES INFORMATION SURVEY ..

INSURANCE:

- 1) Structure - Is it insured for replacement cost? YES NO
- 2) If no, what percent of value? _____
- 3) What is the estimated replacement cost? _____
- 4) Personal Property - Does the organization insure residents personal property? YES NO
- 5) Is the organization's contents insured? YES NO

Liability - What liability insurance is carried and how much?

- 6) General Liability _____
- 7) Medical Liability _____
- 8) Errors and Omissions _____

LIFE AND SAFETY:

- 9) Does the house have a fire alarm system? YES NO
- 10) Is it whole house or separate smoke detectors? _____
- 11) Is the alarm system connected to a central, off premises monitoring station? YES NO
- 12) Does the house have automatic sprinklers? YES NO
- 13) Are regular inspections made by the fire chief? YES NO
- 14) Are fire drills conducted? YES NO
- 15) Is there a severe weather condition plan? YES NO
- 16) Is smoking restricted? YES NO
- 17) If yes to #16, how? _____

SPACE CONSIDERATIONS:

- 18) What is the total assignable square footage of the facility(ies)? _____ (If multiple buildings, please list by building: _____)
- 19) Are commons area(s) available? YES NO
- 20) How many sleeping room are available? _____
- 21) Number of single sleeping room available? _____
- 22) Is a special study space available? YES NO
- 23) If #22 yes, what is the capacity? _____

DEBT LOAD:

- 24) What is the outstanding mortgage principal? _____
- 25) Are there financial stresses associated with payment of this mortgage? YES NO
- 26) What unit owns the property? _____

APPENDIX C: ALUMNI SURVEY



UNIVERSITY OF MISSOURI-ROLLA

Department of Metallurgical Engineering

218 McNutt Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4711

March 27, 1990

TO: MSM-UMR Alumni Association Officers and Directors
FROM: Bob Wolf
RE: Attached Survey

A few months ago, Chancellor Jischke appointed a Task Force to study UMR's fraternities and sororities and suggest avenues of constructive mutual cooperation between the fraternity-sorority system and the University.

As a portion of this study, the Task Force would like to have a sampling of alumni input. I volunteered to survey the Alumni Association officers and directors,--as a group of interested and involved alumni, to obtain constructive input relative to alumni attitudes toward the fraternity-sorority system.

I would like for you to respond on the enclosed survey sheet as soon as possible (by return mail?). Please don't identify yourself on the survey form. Respond frankly. Do not feel compelled to respond to every question if you would choose not to!

A summary of the results of this survey will become a portion of the final report of the Task Force.

Thanks for your help!

Hope to see you at the Spring Meeting of the Board!

Cordially,

A handwritten signature in cursive script, appearing to read 'Bob Wolf'.

Robert V. Wolf
Professor

RVW:mmg

ALUMNI SURVEY

Please complete and return as soon as possible in the enclosed return envelope.

1. I was/was not a fraternity or sorority member as an undergraduate.

2. How constructive do you believe UMR's fraternities and sororities are in helping members to:

	very constructive	constructive	not constructive	no opinion
a. Develop social skills	_____	_____	_____	_____
b. Develop leadership skills	_____	_____	_____	_____
c. Develop scholastic skills	_____	_____	_____	_____
d. Become successful professionals	_____	_____	_____	_____
e. Become loyal UMR alumni	_____	_____	_____	_____

3. What would you consider to be the greatest service performed by the UMR fraternities and sororities?

4. What would you consider to be the greatest weakness of UMR's fraternities and sororities?

5. In what ways could the fraternities and sororities at UMR be improved?

6. Any other comments you would like to submit.....

3. The Chancellor has appointed an ad hoc task force to study and then recommend practical steps to improve the environment of teaching at UMR.

LIBRARY AND LEARNING RESOURCES: Mr. Ron Bohley, Director, reported on the positive changes in the library during the last ten years. He also stressed the increased costs of journals and the fairly static library budget [\$940,000 in 1985-86 and \$1,098,000 in 1989-90]. This year alone, costs of UMR's international journal subscriptions have increased by 26 percent and of domestic journals by 10 percent, for a total dollar increase of some \$56,000.

LIBRARY AND LEARNING RESOURCES COMMITTEE: Professor Dennis Perry, chairman of this Committee, presented the following recommendation regarding the library budget:

"that the budget in the near term (by 1995) be brought up to 3.5 percent and in the long term (by 2000) to 5 percent of the total educational and general (E&G) expenditures."

This recommendation will be considered at the November 29 meeting of the Academic Council. Each department faculty is encouraged to review this recommendation (Academic Council members have supporting data) and then advise their Council representatives.

RULES, PROCEDURE AND AGENDA COMMITTEE: Professor Askeland, chairman, RP&A, reported that he has appointed a sub-committee of RP&A (Professors Edwards, Moss, and Wade) to review the Faculty By-laws for needed changes. Specifically, this Committee is to review the procedures for conducting a search for a dean.

AD HOC COMMITTEE ON RETENTION: The Council approved a motion by the Ad Hoc Committee on Retention (Professors Elifrits, Haynes and Sheffield) that the Council endorse the recommendations of the Campus Committee on Retention dated May 29, 1990, but with five stipulations. Academic Council members have copies of the stipulations.

CATALOG OF GRADUATION: The Council first voted to reconsider and then to table for further discussion the April 2, 1990, action of the Council establishing a catalog of record for graduation requirements--some problems of interpretation.

Jim C. Fogue



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

202 Norwood Hall
Rolla, MO 65401-0249
Telephone (314) 341-4972

UMR Faculty

A G E N D A

November 20, 1990

Academic Council Meeting, Thursday, November 29, 1990; 1:30 p.m.; G-5 H/SS.

I. Approval of minutes of the October 25, 1990 (VOL. XX, NO. 2), minutes.

II. Reports and Responses

- A. President's Report (5 min.) Vince Roach (4449)
- B. Chancellor's Report (10 min.) Martin Jischke (4114)
- C. U-Wide Committee Representative's Report
on Staff Benefits (15 min.) Bruce Selberg (4671)

III. Reports of Standing and Special Committees

- A. D.6.a Academic Assessment (5 min.) Bob Laudon (4466)
 - *1. Assessment Test Scheduling (April 26, 1990; XIX, 6; II.B.2)
- B. D.6.c Admissions and Academic Standards (No Report) Thomas Herrick (4507)
 - 1. Excused Absence Procedure (May 5, 1988; XVII, 8; II.B.1)
 - 2. Minimum Grade Procedures (April 26, 1990; XIX, 6; II.B.3)
 - 3. Repeated Course Grade Policy (October 25, 1990; XX, 2; II.B.4)
 - 4. Delayed Grade Policy (October 25, 1990; XX, 2; II.B.5)
 - 5. Substitution/Waiver Policies and CAPS (October 25, 1990; XX, 2; II.B.6)
 - 6. Clep General Exam (October 25, 1990; XX, 2; II.B.7)
 - 7. Final Examination Policy (October 25, 1990; XX, 2; II.B.8)
- C. D.6.g Campus Safety Committee (No Report) John Carstens (4361)
 - 1. Hazardous Chemicals/Waste Materials Policy Draft (June 14, 1990; XIX, 7; II.B.1)
- D. D.6.i Curricula (5 min.) Lance Williams (4816)
 - *1. Report No. 3, 1990-91
 - 2. Catalogue of Record for Graduation Requirements (October 25, 1990; XX, 2; II.B.3)
- E. D.6.m Library and Learning Resources (10 min.) Dennis Perry (4694)
 - *1. Resolution - UMR Library Funding Goals
- F. D.6.o Personnel (No Report) Lance Haynes (4803)
 - 1. Faculty Evaluation of Department Chairs (March 29, 1990; XIX, 5; II.B.3)
 - 2. UM Sexual Harrassment Policy Proposal (June 14, 1990; XIX, 7; II.B.3)
 - 3. Revised Affirmative Action Procedures (October 25, 1990; XX, 2; II.B.1)
 - 4. Concerns Relative to Procedures in Policies on Research Dishonesty (October 25, 1990; XX, 2; II.B.2)
- G. D.6.t Student Awards and Financial Aids (No Report) John Sheffield (4690)
 - 1. Unofficial Withdrawal Policy (June 14, 1990; XIX, 7; II.B.2)
 - 2. Work Study Assignment Practices (September 13, 1990; XX, 1; III.B.6)



UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council

FROM: Curricula Committee

DATE: November 15, 1990, Meeting

Approved EC1 Items:

EC1 299, Engineering Management 301, Packaging Machinery. Approved for Winter 1991. 3 hours credit. Prerequisite: Eng Mgt 383.

EC1 300, Electrical Engineering 301, Digital System Testing. Approved for Winter 1991. Prerequisite: EE 211. 3 hours credit.

EC1 301, Arts & Sciences, Physics 101. Environmental Physics II. Approved for Winter 1991. 3 hours credit.

Approved CC1 Items:

CC1 3208 Ceramic Engineering. Approved for Fall 1991. Changes in Ceramic Engineering Curriculum as follows:

1. Replace Phys. 25 & 26 (Gen. Phys. & Lab.) with Phys. 24 (Engr. Phys. II). Required by replacement of Phys. 21 & 22 and deemed to be more appropriate to other curriculum.

2. Replace Phys. 21 & 22 (Gen. Phys. & Lab.) with Phys. 23 (Engr. Phys. I). Engineering emphasis more appropriate to other curriculum.

3. Replace Cer. 260 (Ceramic Engr. Design) with Stat. 215 (Engr. Stat.). Additional math level beyond Diff. Equ. required by ABET. Engineering statistics satisfies requirement.

4. Replace ME 225 (Heat Transfer) with Met 204 (Transport Phenomena). Materials emphasis of Met 204 preferred.

CC1 3327, Mathematics & Statistics. Approved for Fall 1991. Changes in the curriculum with Footnote 3 in the bulletin. Reads as follows:

"Mathematics/statistics or computer science courses on the 200, 300 level approved by the advisor. The student must choose two from the following groups and then complete six hours in each of the chosen groups: (1) Math. 305, 306, 307, 308; (2) Math. 315, 330, 351, 385; (3) Math. 302, 322, 325, 351, 383; (4) Stat. 343, 344; Stat. 215, 330; Stat. 215, 346; (5) CSc. 228, 260, ~~328~~ Stat. ~~328~~, 346; Math. 303. No course can be used to satisfy more than one sequence requirement.

CC1 3332, Computer Science 487, Advanced Parallel Computation. Approved for Winter 1991. Change in prerequisites from CSc 381 or CSc 385 and CSc 355 to CSc 355 or CSc 385.

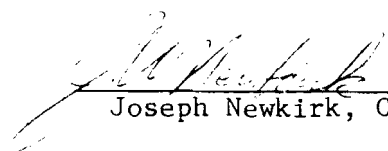
CC1 3336, Physics 008, Laboratory for Environmental Physics. Approved new course for Winter 1991. Prerequisite: Environmental Physics. 1 hour credit. Description reads: A laboratory course to accompany the Environmental Physics lecture course as an option. A set of five experiments will be performed including studies of biodegradability of substances, soil and water sampling, waste recycling, air and water purification, and energy conservation. (Prerequisite was edited to read Environmental Physics instead of Environmental Physics I or II.)

CC1 3337, Electrical Engineering 471, Advanced Electromagnetic Waves I. Approved for Fall 1991. Change of course title to Advanced Electromagnetics I. Change of prerequisites from Phys. 321 or EE 273 with Math/Stat 325 to Phys. 321 or EE 273. Change in catalog description: Review of Maxwell's equations, constitutive relations, and boundary conditions. Wave propagation and polarization. Vector magnetic and electric potentials. Equivalent representations of fields, Babinet's principle. Circular waveguides. Green's functions. (Removed the co-listing with Physics 411.)

New CC1 Items:

CC1 3340, Geology 338, Computer Mapping in Geology. Approved new course for Winter 1991. 1 hour lecture and 1 hour lab. Prerequisites: CSc 73, Geol. 51. Description reads: This course teaches the basics of computer gridding, contouring, digitization, volumetric and generation of three dimensional diagrams both on the personal computer and on the UMR mainframe. Strengths and weakness of various software packages, including gridding algorithms and editing packages, are compared.

CC1 3343, Physics 411, Electrodynamics I. Approved for Fall 1991. Change in catalog description: Removal of being co-listed with EE 471.


Joseph Newkirk, Chairman



UNIVERSITY OF MISSOURI-ROLLA

Attachment III.B

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council

FROM: Curricula Committee

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CC1 3343, Physics 411, Electrodynamics I. Approved for Fall 1991. Change in catalog description: Removal of being co-listed with EE 471.


Joseph Newkirk, Chairman

- H. Committee on Effective Teaching (10 min.) Dale Elifrits (4847)
 - 1. Student Evaluation Form Update
- I. Ad Hoc Committee on Research Environment (5 min.) Tim Gay (4797)
 - 1. Research Enhancement Committee Report Review
(September 13, 1990; XX, 1; III.B.5)
- J. Intercampus Faculty Council (ICFC) (5 min.) Bob Wolf (4733)

IV. Old Business

V. New Business

R, P & A Cmtt.
DA/cmb/11-13-90

*Supplementary materials sent to Academic Council members and department
chairmen.



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

202 Norwood Hall
Rolla, MO 65401-0249
Telephone (314) 341-4972

HIGHLIGHTS
ACADEMIC COUNCIL MEETING
November 29, 1990

PRESIDENT'S REPORT: President Roach reported briefly on four items:

1. A copy of the UMR Assessment Report, Year Three, is available in the Council office. The report shows that UMR students are superior to all comparison groups.
2. The executive summary of a recent "marketing" study of the campus is available in the Council office. The study reports the perceived attitudes of various constituencies (for example, prospective students, parents, high school counselors) toward UMR.
3. A "touch-tone," voice response system for student registration and record access is under development. More later.
4. There is some concern regarding to whom, or to what office, or to what group the Committee on Effective Teaching presently reports, or should report. More on this next semester.

CHANCELLOR'S REPORT: Chancellor Jischke reported to the Council on five items:

1. The recent withholding of appropriated funds by the governor as a consequence of reduced state revenues necessitated a \$250,000 reduction in UMR expenditures: \$150,000 from the Chancellor's office (primarily year-end funds); \$50,000 from other campus-wide sources, such as purchase of new vehicles; and \$95,000 from academic units in the form, for example, of vacant positions and one-time expenditures.

UMR has experienced some \$2,000,000 in withholdings this year: the budget is quite tight.

2. As a consequence of several studies now underway or only recently completed, as well as other matters that might bear upon any proposed revisions in our admissions standards, the Chancellor recommends that no further revisions be made in these standards at this time.
3. The search for a new dean of Arts and Sciences is well underway; the search committee should present its recommendations early in the Winter Semester.
4. Revised, mutually agreed upon (by UMR and UMSL) modifications in the earlier proposed plan for engineering in St. Louis have been submitted to the President. The Board of Curators will

consider this revised plan at its next meeting (December 6 and 7). The Chancellor will then discuss the details of this plan at a special meeting of the General Faculty on December 11 at 4:00 p.m.

5. Consultants to the campus have found no fundamental weakness in UMR's academic programs that might affect student enrollment. To enhance our enrollment, then, we need to enhance our "marketing" procedures. For example, we must increase the pool of potential enrollees and must stress the benefits of a UMR education. The goal is a student enrollment of some 5,500 in about five years.


REPORT ON STAFF BENEFITS: Professor Bruce Selberg gave a detailed report on the recent changes in and current status of various facets of the University Staff Benefits program. Sometime in the Spring, our campus representatives on the University Staff benefits Committee will solicit from our campus staff and faculty any recommendations for further improvements in the program, any concerns we have with the existing program, et cetera.

ACADEMIC ASSESSMENT: The Academic Assessment Committee reported that it feels that sufficient times and back-up schedules are available to students to complete the assessment program without conflicting with any of their scheduled classes.

LIBRARY AND LEARNING RESOURCES COMMITTEE: The recommendation of this Committee that the Library "budget in the near term (by 1995) be brought up to 3.5% and in the long term (by 2000) to 5.0% of the total educational and general (E&G) expenditures" was first moved and then amended to include a statement that faculty and staff compensation should remain the number one campus priority. After discussion, the motion as amended failed.

The Council President then re-referred the question of library funding to the Library Committee for further consideration and recommendation to the Council in light of the discussion regarding their initial recommendation.

INTERCAMPUS FACULTY COUNCIL: Professor Wolf reported that the ICFC has requested annual reports of the performance of appropriate University investments inasmuch as facets of our benefits program are conditioned upon the performance of those investments. He also noted that the University Press continues as an "issue" of concern. He asked that anyone having difficulties with the Press, or concerns about its operation, to contact either himself or Professors Look, Oakes, or Wise, campus members of the University Press Advisory Committee.


Jim C. Pogue
Secretary

CP/cmb



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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VOL. XX, NO. 3
November 29, 1990

SUMMARY of the reports, actions, referrals and announcements made at the meeting of the Academic Council held on November 29, 1990.

1. Approval of the minutes of the October 25, 1990, meeting.
2. Reports and responses.
 - A. President's report - V. Roach
 - B. Chancellor's report - M. Jischke
 1. Budget status
 2. Admission standards
 3. Search - Arts and Sciences dean
 4. Cooperative engineering program in St. Louis
 5. Enrollment
 6. National Guard/Reserve activations
 - C. U-Wide Committee on Retirement and Staff Benefits - B. Selberg
 1. Benefit status report (Attachment II.C)
3. Reports of standing and special committees.
 - A. Academic Assessment - R. Laudon
 1. Assessment test scheduling (Attachment III.A)
 - B. Curricula - L. Williams
 1. Report No. 3, 1990-91
 - a. Three experimental courses presented
 - b. Eight course/curriculum changes approved
 - c. Two new courses approved
(Attachment III.B)
 - C. Library and Learning Resources - D. Perry
 1. Resolution - UMR library funding goals
(Attachment III.C)
 - D. Committee on Effective Teaching - L. Williams
 1. Student evaluation form update
 - E. Ad Hoc Committee on Research Environment - V. Roach
 1. Research Enhancement Committee report review
 - G. Intercampus Faculty Council (ICFC) - R. Wolf

Attachments: II.C
 III.A
 III.B
 III.C



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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VOL. XX, NO. 3
November 29, 1990

XX, 3 The November 29, 1990, meeting of the Academic Council was
.1 called to order at 1:31 p.m. by Prof. D. Vincent Roach,
Academic Council President. The following substitutions
were recognized: Prof. Kurt Kosbar for Prof. Randy Moss;
Prof. Steve Douglas for Prof. Glen Haddock; Prof. Robert
Wolf for Prof. Donald Askeland; and Ms. Jean Eisenman for
Mr. Ronald Bohley. Staff Council representative was Ms.
Sherry Adams.

President Roach entertained a motion to approve the minutes
of the October 25, 1990, meeting with the minor editorial
correction of the name change from Interfraternity Council
to Intercampus Fraternity Council (XX, 2.2.A, President's
Report, Paragraph 2, second sentence). Prof. B. Ken
Robertson moved, Prof. Jim Pogue seconded, and the motion
passed.

XX, 3 REPORTS AND RESPONSES.
.2

A. PRESIDENT'S REPORT. President Roach indicated that
the following would be on file in the Council office:
(1) Assessment Report -- Results for Year Three; (2)
Faculty/Staff Survey on Chemical Abuse; (3) Minutes of
the special Chancellor's Council meeting -- Marketing
Survey highlights (full report in Chancellor's office);
and (4) the form for Faculty evaluation by students.

The touchtone registration system is in development and
will be activated in the 1991-92 academic year.

B. CHANCELLOR'S REPORT.

1. BUDGET STATUS. Chancellor Martin Jischke reported
that declining tax revenues and the slowing Missouri
economy have created a revenue shortfall of
approximately \$70 million prompting Governor
Ashcroft to (1) reduce Missouri reserves by \$6
million; (2) delay the salary increase for school
teachers--saving \$17 million; (3) take advantage of
the refund to the state from the Kansas City School
System of \$23 million; and (4) reduce state spending
by \$24 million. Higher education's share of this
\$24 million reduction is \$6 million representing
approximately 1 percent of the total state
appropriations. The University of Missouri's share
is \$3 million.

President Peter Magrath has assumed a proportionally larger share of the reduction in the Central Administration budget. UMR's share, rather than 12 percent, is just below 10 percent of the \$3 million, or \$295,000. On campus, the Chancellor's office will cover half of this reduction with \$150,000 one-time year-end funds and will reduce purchases of vehicles and administrative services (delaying the filling of positions and reducing purchases) for \$50,000, leaving \$95,000 to be accommodated by the Deans, Vice-Chancellors and the Athletic program in proportion to their contribution to the operating budget.

This is in addition to the 4.5 percent already withheld from the budget. The cumulative effect for this campus now stands right at \$2 million.

2. ADMISSION STANDARDS. Last Spring, the Board of Curators revised performance standards for Freshmen upon admission while also allowing for the possibility of higher standards for specific programs. At that time, Chancellor Jischke requested the Academic Council to wait until the Fall of 1990 before using this special provision. In light of this Fall's enrollment, the long-range planning task force review of enrollment and admission standards, and the Business-Higher Education Partnership Commission study of admission standards, Chancellor Jischke recommended that the Council monitor current activities and refrain from further action on admission standards at this time.
3. SEARCH - ARTS AND SCIENCES DEAN. Five candidates will be interviewed on campus beginning this month. Interviews should be completed by Christmas break with a recommendation available early in the Spring.
4. COOPERATIVE ENGINEERING PROGRAM IN ST. LOUIS. Chancellor Jischke reported that he and Interim Chancellor Blanche Touhill have been meeting in order to explore possible responses to Governor Ashcroft's actions and to the newly vacated Director of Engineering Education position previously held by Prof. Ed Bernolli. A number of agreed upon modifications to the Board of Curators' earlier decision have been forwarded to President Magrath

Chancellor Jischke quickly pointed out that any future changes made upon these recommendations will be subject to budgetary constraints.

6. NATIONAL GUARD/RESERVES ACTIVATIONS. Due to Operation Desert Shield, some UMR students in reserves or National Guard are affected. Chancellor Jischke requested accommodation in the form of examination delay or rescheduling in order to allow for course completion.

C. U-WIDE COMMITTEE ON RETIREMENT AND STAFF BENEFITS.

1. BENEFIT STATUS REPORT. The U-Wide Staff Benefits Committee (two faculty/staff members from each campus, a retired member, an extension member, and a floating member rotating among each campus) makes recommendations to the UM President on application uniformity/administration/changes of UM's retirement and benefit plan. It also spends time reviewing/approving all employee retirement calculations and making recommendations on employee benefits appeals.

In 1987, Hewitt Associates was hired to compare UM Employee Benefits to the Big 8/Big 10. As reported by Prof. Bruce Selberg, their results ranked UM as below average. The 1988 U-Wide Retirement and Staff Benefits Committee recommended the following to President Magrath: (1) eliminate maximum years of service provision (35 years); (2) decrease (from five to three) the number of years used in calculating the high-average salary; (3) eliminate the \$4,800 social security offset from the retirement formula; (4) change the actuarial reduction factor to 3-1/3 percent per year for early retirement (prior to age 65); (5) allow early retirement with unreduced benefits for employees aged 60 with 25 years service; and (6) modify the formula to make the plan competitive with other institutions at all salary levels.

In 1989, President Magrath formed an Ad Hoc Committee to study retirement benefits. Its recommendation was presented in June 1989 and was reviewed by each campus. The Board of Curators approved the new plan at the beginning of 1990 (see attached), and UM's new plan is now up to the average of the Big 8/Big 10.

Four out of the six U-Wide Committee's 1988 recommendations were adopted in the New Plan and one might argue that a fifth was, too (instead of calculating the high average salary on a three-year basis, the multiplication factor was increased to 0.02133--the result is actuarially the same).

Current committee developments include a new committee chair, Ken Hutchinson. The committee will handle less routine work (only review exceptional retirement cases) and spend more time in planning. Possible areas to study are being considered (see attached) and input -- in written form -- will be requested from all UMR employees.

Concerns voiced in discussion included the increased deductible for medical benefits -- younger people are more interested in medical costs rather than retirement plans; the possibility for preventative medicine or a wellness program.

Phyllis McCoy will ask for delay of the December annual report so that those changes becoming effective in January can also be included.
(Attachment II.C)

XX, 3 REPORTS OF STANDING AND SPECIAL COMMITTEES.
.3

A. ACADEMIC ASSESSMENT.

1. ASSESSMENT TEST SCHEDULING. Prof. Bob Laudon reported that the Committee felt no policy statement was necessary on test scheduling conflicts at this time. Students are given a choice of times to fulfill their assessment testing obligation (Freshmen/Sophomore--7 times; Juniors--9 times). In addition, the testing center scheduled eight make-up times and even allowed testing on a walk-in basis.

The system should be allowed time to debug. If conflicts arise again, the committee could reconsider the matter. Prof. Lance Williams moved for report acceptance. Prof. Lance Haynes provided the second. President Vince Roach called the question, and the motion passed.
(Attachment III.A)

B. CURRICULA.

1. REPORT NO. 3, 1990-91. Prof. Lance Williams presented the report containing three EC1's and seven CC1's. Prof. Williams moved for approval of the

for consideration. It is hoped that the President will present comments at the December Board meeting. A special UMR faculty meeting to discuss the suggested modifications will be scheduled on December 11 at 4 p.m.

5. ENROLLMENT. Chancellor Jischke indicated that enrollment is a major priority this year in light of our declining enrollment. The Missouri rate for enrollment is below national norms. There is evidence to suggest that future shortages of professionals schooled in engineering and the sciences will occur.

Marketing Horizons and George Dane, a nationally recognized admissions expert, were engaged as consultants. Marketing Horizons survey was presented at the last Chancellor's Council meeting, and Dane's report will be discussed at the next Chancellor's Council meeting. Both consultants commented positively upon the quality of UMR's academic program, faculty, and facilities. Marketing Horizons (in surveying 650 students, parents, high school counselors/teachers, alumni, and employers) concluded that UMR is well positioned in the engineering market; that no one institution is as well placed in the applied sciences; that distinctive features need to be emphasized to gain further marketing success in UMR's Liberal Arts programs; that if we are to increase enrollment, our pool of possible enrollees must be expanded; that we would benefit by "accentuating the positive at ... and the benefits, rather than features, of UMR ... (jobs, graduate school, et cetera)."

Dane analyzed admissions activities and suggested that we should define the phrase "Missouri's technological university" (no one has previously done so) in a way as to make UMR more attractive to prospective students; reorganize our enrollment activities into an enrollment services division; "soften and enrich the image of the institution" by emphasizing the social and leadership opportunities offered; adopt a marketing-based approach focused upon expanding student inquiry to be converted later into enrollment; package financial aid to support recruitment; improve and expand UMR publications; and institutionalize admissions research -- yield rate by admission officer, school, location, et cetera.

CC1's as corrected: CC1 3327, Mathematics and Statistics (second paragraph, sixth line) should read "(5) CSc. 228, 260; CSc. 328, Stat. 346;" not "(5) CSc. 228, 260; Stat. 328, 346;" Prof. Jerry Westphal seconded the motion, which carried. (Attachment III.B)

C. LIBRARY AND LEARNING RESOURCES.

1. RESOLUTION -- UMR LIBRARY FUNDING GOALS. Prof. Dennis Perry reviewed the draft of the Library and Learning Resources Committee resolution and the supplemental material drafted by Mr. Ron Bohley in which UMR's library collections and staffing are compared to the criteria accepted by the Association of College and Research Libraries (ACRL) and in which lies the supporting basis to the Committee resolution. Prof. Perry moved to accept the previously presented Committee recommendation and noted that "the level of funding that the library receives is not an exact science and there is no formula that we can apply. ... The recommendation ... does not need to be implemented this year or next." Prof. Donald Cronin seconded the motion.

Chancellor Jischke, following recognition by the Chair, commented that budgeting is prioritized. Mandatory expenses (for example, utilities) are first met. Then, with guidance from the Board of Curators, U-Wide priorities (such as compensation and Expense and Equipment budgets for individual academic units) are covered. The remainder is divided by the Chancellor with input from the Deans and Vice-Chancellors.

Chancellor Jischke advised consideration of two issues: (1) Is 3-1/2 or 5 percent the appropriate number? Other universities with which UMR can be compared reach neither of these percentages in library budgeting/support; and (2) What priority does this goal have in relation to other budgeting priorities such as compensation, equipment and expense, graduate student support, laboratory equipment, and physical plant maintenance?

Prof. Lance Haynes amended the motion adding a second part to the resolution, "that the recommendation not be construed to mean that the long-standing policy of top-budget priority on

improvement of compensation be altered in any way." Prof. Donald Cronin provided the second, and the amendment was adopted.

President Roach called for the question. After a voice vote proved non-conclusive, a show of hands was called for. The motion failed.
(Attachment III.C)

D. COMMITTEE ON EFFECTIVE TEACHING.

1. STUDENT EVALUATION FORM UPDATE. The Council's 1988 policy on evaluation of faculty instruction contains various areas of reference within the entire effective teaching evaluation.

In 1989-90, a nineteen question, campus-wide form was used for teaching evaluations; considerable concern over last year's evaluation followed. The Committee for Effective Teaching was asked by Vice-Chancellor John Park to review the process and to recommend changes in order to better accommodate the faculty.

Prof. Lance Williams reported that the Committee produced a machine-read form having a series of departmental evaluation questions (1-10) and campus evaluation questions (11-17). Packets did not arrive until Monday of this week. Evaluations were to be held this week and next.

Continuing issues remain faculty/institution acceptance and workability of the instrument with regards to situations where one lectures and another (or others) conduct lab, and (2) accurate sorting of forms--one to ADP and one to the registrar's office.

The Committee requests written response from faculty on the evaluation and intends in the next few months to provide guidelines on self, peer, and administrative evaluations.

E. AD HOC COMMITTEE ON RESEARCH ENVIRONMENT.

1. RESEARCH ENHANCEMENT COMMITTEE REPORT REVIEW. Due to conflicting meeting schedules, Prof. Tim Gay was unable to report.

F. INTERCAMPUS FACULTY COUNCIL (ICFC). The ICFC met on November 21 and Prof. Bob Wolf reported on the five primary areas of discussion: (1) rebudgeting for the additional withholding (reported by Chancellor Jischke);

(2) changes in retirement benefits and proposed increases based on fund performance (annual fund reports should be made available to all); (3) continued dissatisfaction on the part of some faculty members primarily from St. Louis on the University Press management (input would be appreciated regarding your relationship with "The Press"); (4) the formation of the Faculty Advisory Committee on the integrated data system -- two faculty and one administrator from each campus (concern was noted that very specific development of the data system has taken place prior to committee involvement); and (5) the President's concern of dealing with press/politician/legislative/general public criticism of the University (no conclusion was developed).

The meeting adjourned at 3:20 p.m.

Respectfully submitted,



Jim C. Pogue
Secretary

Attachments: II.C
 III.A
 III.B
 III.C

*Minutes of the Academic Council Meeting are considered official notification and documentation of actions approved.



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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UMR Faculty

A G E N D A

January 17, 1991

Academic Council Meeting, Thursday, January 24, 1991; 1:30 p.m.; G-5 H/SS.

I. Approval of minutes of the November 29, 1990 (VOL. XX, NO. 3) minutes.

II. Reports and Responses

A. President's Report (5 min.) Vince Roach (4449)

B. Referrals

1. Revised Tenure and Promotion Document to the Personnel Committee

C. Chancellor's Report on Enrollment Services (15 min.) Martin Jischke (4114)

III. Reports of Standing and Special Committees

A. D.6.c Admissions and Academic Standards (No Report) Thomas Herrick (4507)

1. Excused Absence Procedure (May 5, 1988; XVII, 8; II.B.1)

2. Minimum Grade Procedures (April 26, 1990; XIX, 6; II.B.3)

3. Repeated Course Grade Policy (October 25, 1990; XX, 2; II.B.4)

4. Delayed Grade Policy (October 25, 1990; XX, 2; II.B.5)

5. Substitution/Waiver Policies and CAPS (October 25, 1990; XX, 2; II.B.6)

6. Clep General Exam (October 25, 1990; XX, 2; II.B.7)

7. Final Examination Policy (October 25, 1990; XX, 2; II.B.8)

B. D.6.g Campus Safety Committee (No Report) John Carstens (4361)

1. Hazardous Chemicals/Waste Materials Policy Draft (June 14, 1990; XIX, 7; II.B.1)

C. D.6.i Curricula (5 min.) Joe Newkirk (4725)

*1. Report No. 4, 1990-91

2. Catalogue of Record for Graduation Requirements (October 25, 1990; XX, 2; II.B.3)

D. D.6.o Personnel (5 min.) Lance Haynes (4803)

1. Faculty Evaluation of Department Chairs (March 29, 1990; XIX, 5; II.B.3)

2. UM Sexual Harrassment Policy Proposal (June 14, 1990; XIX, 7; II.B.3)

3. Revised Affirmative Action Procedures (October 25, 1990; XX, 2; II.B.1)

4. Concerns Relative to Procedures in Policies on Research Dishonesty (October 25, 1990; XX, 2; II.B.2)

E. D.6.r Rules, Procedure and Agenda (5 min.) Don Askeland (4730)

1. Vacancy - Student Affairs Committee

F. D.6.t Student Awards and Financial Aids (No Report) John Sheffield (4690)

1. Unofficial Withdrawal Policy (June 14, 1990; XIX, 7; II.B.2)

2. Work Study Assignment Practices (September 13, 1990; XX, 1; III.B.6)



UNIVERSITY OF MISSOURI-ROLLA

Rec'd 10/23/90

School of Mines and Metallurgy

Department of Geology and Geophysics

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Memo to: Vince Roach
Chairman, Academic Council
From: Robert C. Laudon *REL*
Chairman, Academic Assessment Committee
Subject: 1990-91 Chairman, and Referral

I will continue as the Chairman of the Academic Assessment Committee for the 1990-91 academic year.

In the next Academic Council meeting I would like to take about three minutes to report on the following referral:

Regarding the May 7, 1990 referral requesting that the Assessment Committee "consider drafting a campus policy that states whether administering the assessment instrument takes precedence over regularly scheduled classes and examinations:"

The Assessment Committee feels that a policy statement is not necessary regarding these priorities. Students are required to fulfill their assessment obligations as well as their classroom requirements. Ample opportunity to fulfill the assessment requirements without classroom conflicts have been provided by the Testing Center. Although three conflicts were reported in 1990, and although the Assessment Committee was not provided with details of the conflicts, it is felt that the possibility exists that the three conflicts were caused by students who were simply testing the system.

The Assessment Committee feels that as long the assessment requirements and procedures are adequately communicated to students and faculty, and when students understand that there are real consequences for not fulfilling those requirements, the problem should disappear. If the problem continues, the Assessment Committee will be happy to draft a policy regarding priorities. In the meantime, the committee feels that the present system should be given a chance to work.

DRAFT

MEMORANDUM TO: Vincent D. Roach, President,
Academic Council

FROM: Library & Learning Resources Committee

RE: UMR Library Funding Goals

Enclosed are library funding goals developed by the Library & Learning Resources Committee.

The library committee believes that the library and the learning resources it provides must be prominent on this campus and that UMR must be aggressive in exploring new opportunities for our library if we are truly to be Missouri's Technological University.

The underlying philosophy of the plan is

- that in an era of rapid technological change the library must be an integral part of the instructional and research programs at UMR.
- that the library and learning resources at UMR must be state-of-the-art and must be continually updated.

The committee recommends

- that the budget in the near term (by 1995) be brought up to 3.5% and in the long term (by 2000) to 5.0% of the total educational and general (E&G) expenditures.



UNIVERSITY OF MISSOURI-ROLLA

Library and Learning Resources

Curtis Laws Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4227

MEMORANDUM TO: Vincent D. Roach, President
Academic Council

FROM: Library and Learning Resources
Committee

DATE: November 13, 1990

RE: Attachment to "UMR Library Funding Goals"
Proposal from Library Committee

Enclosed is an attachment to the "UMR Library Funding Goals" proposal from the Library and Learning Resources Committee (LLRC) presented at the October 25, 1990 meeting of the Academic Council. This attachment, drafted by Ronald G. Bohley, indicates the library's collections and staffing in relation to the accepted criteria of the Association of College and Research Libraries (ACRL). Currently, budget limitations have placed us at a very low "C" in collections and a very low "D" in the number of staff.

The purpose of this attachment is to indicate the dollar amounts required to fund the library at three different levels: minimum, moderate and excellent.

The enclosed findings affirm that the LLRC proposal to increase the library budget to 3.5% of total E&G by 1995 and to 5.0% by 2000 is a reasonable goal. An increase to 3.5% would enable the library to achieve only moderate acquisition and staffing increases according to ACRL standards. To achieve a low "A" in acquisitions and a low "C" in staffing over ten years would require an increase to 5%.

To conclude, even modest aspirations for upgrading and maintaining the library will require 3.5% - 5.0% increases in the library budget over the next ten years.

The Association for College and Research Libraries provides two formulae for determining library adequacy. These are widely accepted by the library community and are generally recognized as effective measures of library adequacy. Like most measures, however, they do not attempt to distinguish among different disciplines at each institution. They do allow for weighting for graduate programs.

Formula A recommends library collection sizes based on number of students, faculty and degree programs.

FORMULA A--

1. Basic collection	85,000 vols.
2. Allowance per FTE faculty member	100 vols.
3. Allowance per FTE student	15 vols.
4. Allowance per undergraduate major or minor field*	350 vols.
5. Allowance per master's field, when no higher degree is offered in the field*	6,000 vols.
6. Allowance per master's field, when a high degree is offered in the field*	3,000 vols.
7. Allowance per 6th year specialist degree field*	3,000 vols.
8. Allowance per doctoral field*	25,000 vols.

A "volume" is defined as a physical unit of a work which has been printed or otherwise reproduced, typewritten, or handwritten, contained in one binding or portfolio, hardbound or paperbound, which has been catalogued, classified, or otherwise prepared for use. Microform holdings should be converted to volume-equivalents, whether by actual count or by an averaging formula which considers each reel of microfilm, or ten pieces of any other microform, as one volume-equivalent.

*For example of List of Fields, see Gerald S. Malitz, *A Classification of Instructional Programs*. Washington, D.C.: National Center for Education Statistics, 1981.

An analysis of UMR data shows a need for 665,000 volumes and our current holdings are approximately 425,000 volumes. The ACRL further assigns a letter grade as follows:

A = 90 - 100% of standard

B = 75 - 89

C = 60 - 74

D = Less

By this standard UMR's collections rate a very low "C". A high "C", say a 70 or better, would require another 40,000 volumes - which would take another 10 years or so at today's acquisition rate, and little of the collection would be current. As a very minimal goal, adding 10,000 volumes per year would allow for a high "C" by 1995. At the current average volume price for our items added last year, this would cost \$680,000 per year rather than \$485,000 currently allocated to library acquisitions - an increase of \$195,00 to the library acquisitions budget.

If a higher goal, say a middle "B", were set, the library collection would need to grow to 545,000 volumes. At current rates and as a 10 year goal, this scheme would call for an additional 120,000 volumes at an annual additional cost of \$331,000. A "B" rating in 10 years is a reasonable goal.

An ideal might be to achieve 90% of the standard, requiring a contribution to libraries of \$1.2M annually for acquisitions - approximately 2.5 times current levels.

The ACRL also recommends a formula for determining staff sizes - Formula B.

FORMULA B—

Enrollment, collection size and growth of collection determine the number of librarians required by the college and shall be computed as follows (to be calculated cumulatively):

1 - For each 500, or fraction thereof, FTE students up to 10,000	1 librarian
2 - For each 1,000, or fraction thereof, FTE students above 10,000	1 librarian
3 - For each 100,000 volumes, or fraction thereof, in the collection	1 librarian
4 - For each 5,000 volumes, or fraction thereof, added per year	1 librarian

Libraries which provide 90-100 percent of these formula requirements can, when they are supported by sufficient other staff members, consider themselves at the A level in terms of staff size; those that provide 75-89 percent of these requirements may rate themselves as B; those with 60-74 percent of requirements qualify for a C; and those with 50-59 percent of requirements warrant a D.

UMR rates a very low "D" on this scale. A low "C" would be a very modest goal, calling for no more than 2 additional staff.

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UNIVERSITY OF MISSOURI
RETIREMENT & STAFF BENEFITS
STATUS REPORT

**WHAT HAS THE UM U-WIDE RETIREMENT & STAFF BENEFITS COMMITTEE
HISTORICALLY DONE?**

Approve retirement and deferred benefits calculations.

Make recommendations on application of the plan to avoid inconsistencies.

Make recommendations on appeals from employees.

Make recommendations to the president on changes to the plan.

**1987 HEWITT ASSOCIATES -
HIRED TO ANALYZE UM EMPLOYEE BENEFITS COMPARED TO BIG 8/BIG 10**

RESULTS

UM BENEFITS (Employer Paid Value)	TOTAL VALUE (100 IS AVERAGE)	RANKING
RETIREMENT (Without Cost of Living)	83.0	11th
PRERETIREMENT DEATH (Group Life Only)	92.3	10th
PRERETIREMENT DEATH (All Benefits)	73.5	12th
POSTRETIREMENT DEATH	71.9	6th
LONG TERM DISABILITY	67.7	14th
MEDICAL BENEFITS (Excluding dental, hearing, vision)	89.8	12th
DENTAL	101.9	10th
ALL BENEFITS (Without Cost of Living)	81.2	12th

**RECOMMENDATIONS MADE TO THE PRESIDENT BY THE U-WIDE
RETIREMENT AND STAFF BENEFITS COMMITTEE IN 1988**

Eliminate maximum years of service provision.

Decrease the number of years used in calculating the high average salary from five to three.

Eliminate the \$4800 Social Security offset from the retirement formula.

Change the actuarial reduction factor for early retirement to 3-1/3% per year for each year a person retires prior to age 65.

Allow early retirement with unreduced benefits at a minimum age of 60 with 25 years of service.

Modify the formula to make the plan competitive with other plans at various salary levels.

NEW UM RETIREMENT PLAN CHANGES

NEW PLAN	OLD PLAN	IMPROVEMENT OR REDUCTION
Removed \$4800 subtraction from retirement benefit formula	\$4800 subtraction in formula	Improvement
Multiplication factor changed to 0.02133 in retirement formula	Multiplication factor of 1% average salary plus .6% of average salary minus \$4800	Improvement
Cap on years of service removed from formula	Service cap of 35 years in formula	Improvement
Early retirement reduction set at 3-1/3% per year	Early retirement reduction 3-1/3% on the 1% portion of formula & 6-2/3% on the 0.6% portion of formula - average of 4.58%	Improvement
Cost of Living - based on funds performance - minimum of 3 years funds performance before any payments	Cost of Living - ad hoc cost of living	Reduction

NEW UM RETIREMENT PLAN CHANGES (continued)

NEW PLAN	OLD PLAN	IMPROVEMENT OR REDUCTION
Preretirement Death - the greater of two times salary or 50% of employees pension value reduced by joint life option and by early retirement factor	Preretirement Death - calculates retirement assuming employee is 65 with 15 years of service or actual years which ever is greater and then takes 50% of that benefit	
Postretirement Death - reduced benefits for survivor 50%, 75% or 100% Benefits Cost Employee Anybody can be named as survivor	Postretirement Death - 50% of employee benefit unless remarried	Reduction except for naming survivor

NEW UM LIFE INSURANCE CHANGES

NEW PLAN

1 or 2 times salary -
decreasing term

1, 2, or 3 times salary -
nondecreasing term
Cash accumulation option
Portability

OLD PLAN

1, 2, or 3 times
salary - decreasing term

None

IMPROVEMENT OR REDUCTION

Improvement

NEW UM LONG TERM DISABILITY CHANGES

NEW PLAN	OLD PLAN	IMPROVEMENT OR REDUCTION
Long Term Disability 60% of pay for total benefit - university funded	Long Term Disability 66% of pay for total benefit - 41% funded by university	Improvement
66-2/3% benefit from university for a total benefit including social security of 85% - employee pays difference	85% benefit when integrated with other plans 25% university funded	Improvement

NEW UM MEDICAL AND DENTAL PLAN CHANGES

NEW PLAN	OLD PLAN	IMPROVEMENT OR REDUCTION
Deductible increased to 250, 500, 1000	Deductible of 100 or 500	Reduction-except for 1000 deductible which allows more participation in plan
Separate rates for one child versus two or more children for medical plan	Same rate for one or more children	Neutral
Coordination with Medicare	Retirees were given a benefit active employees were not given	Neutral
Medicare Part B - retirees are assumed to have purchased	Medicare Part B - retirees did not have to purchase	Reduction
University Retiree Medical Subsidy - 66 2/3% for age 65 with 30 years of service - less subsidy for less service or younger retirement age	University Retiree Medical Subsidy - 66 2/3% for all retirees regardless of age or service	Reduction
University Retiree Dental Subsidy - 50% for age 65 with 30 years of service - less subsidy or less service or younger retirement age	University Retiree Dental 50% for all retirees regardless of age or service	Reduction

UM ADDITIONAL PLAN CHANGES**NEW PLAN****OLD PLAN****IMPROVEMENT
OR REDUCTION****Flexible Spending Account****None****Improvement**

**U-WIDE RETIREMENT & STAFF BENEFITS COMMITTEE RECOMMENDATIONS
THAT WERE IMPLEMENTED IN THE NEW PLAN**

- ✓ **Eliminate maximum years of service provision.**
Decrease the number of years used in calculating the high average salary from five to three.
- ✓ **Eliminate the \$4800 Social Security offset from the retirement formula.**
- ✓ **Change the actuarial reduction factor for early retirement to 3-1/3% per year for each year a person retires prior to age 65.**
Allow early retirement with unreduced benefits at a minimum age of 60 with 25 years of service.
- ✓ **Modify the formula to make the plan competitive with other plans at various salary levels.**

WHERE DO WE GO FROM HERE?

New Committee Chairman

Handling less routine work

More time for planning

Possible Areas of Committee Study

Prescription Service

Direct billing

Cash out of pocket saving

Cheaper cost for drugs

Defined Contribution Plan - new employee benefit

Long Term Group Care Policy

(Employee paid)

Eye Glasses, Eye Exams, Hearing Exams, and Hearing Aids

Keep up with the times

Early retirement with full benefits for age + service = 90 or 85 or 80

What would you like in benefits?

Will send a letter to all UMR employees asking for their input



UNIVERSITY OF MISSOURI-ROLLA

Attachment III.A

Rec'd 10/23/90
School of Mines and Metallurgy

Department of Geology and Geophysics

125 McNutt Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4616

Memo to: Vince Roach
Chairman, Academic Council
From: Robert C. Laudon *RCL*
Chairman, Academic Assessment Committee
Subject: 1990-91 Chairman, and Referral

I will continue as the Chairman of the Academic Assessment Committee for the 1990-91 academic year.

In the next Academic Council meeting I would like to take about three minutes to report on the following referral:

Regarding the May 7, 1990 referral requesting that the Assessment Committee "consider drafting a campus policy that states whether administering the assessment instrument takes precedence over regularly scheduled classes and examinations:"

The Assessment Committee feels that a policy statement is not necessary regarding these priorities. Students are required to fulfill their assessment obligations as well as their classroom requirements. Ample opportunity to fulfill the assessment requirements without classroom conflicts have been provided by the Testing Center. Although three conflicts were reported in 1990, and although the Assessment Committee was not provided with details of the conflicts, it is felt that the possibility exists that the three conflicts were caused by students who were simply testing the system.

The Assessment Committee feels that as long the assessment requirements and procedures are adequately communicated to students and faculty, and when students understand that there are real consequences for not fulfilling those requirements, the problem should disappear. If the problem continues, the Assessment Committee will be happy to draft a policy regarding priorities. In the meantime, the committee feels that the present system should be given a chance to work.



UNIVERSITY OF MISSOURI-ROLLA

Attachment III.C

Library and Learning Resources

Curtis Laws Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4227

MEMORANDUM TO: Vincent D. Roach, President
Academic Council

FROM: Library and Learning Resources
Committee

DATE: November 13, 1990

RE: Attachment to "UMR Library Funding Goals"
Proposal from Library Committee

Enclosed is an attachment to the "UMR Library Funding Goals" proposal from the Library and Learning Resources Committee (LLRC) presented at the October 25, 1990 meeting of the Academic Council. This attachment, drafted by Ronald G. Bohley, indicates the library's collections and staffing in relation to the accepted criteria of the Association of College and Research Libraries (ACRL). Currently, budget limitations have placed us at a very low "C" in collections and a very low "D" in the number of staff.

The purpose of this attachment is to indicate the dollar amounts required to fund the library at three different levels: minimum, moderate and excellent.

The enclosed findings affirm that the LLRC proposal to increase the library budget to 3.5% of total E&G by 1995 and to 5.0% by 2000 is a reasonable goal. An increase to 3.5% would enable the library to achieve only moderate acquisition and staffing increases according to ACRL standards. To achieve a low "A" in acquisitions and a low "C" in staffing over ten years would require an increase to 5%.

To conclude, even modest aspirations for upgrading and maintaining the library will require 3.5% - 5.0% increases in the library budget over the next ten years.

The Association for College and Research Libraries provides two formulae for determining library adequacy. These are widely accepted by the library community and are generally recognized as effective measures of library adequacy. Like most measures, however, they do not attempt to distinguish among different disciplines at each institution. They do allow for weighting for graduate programs.

Formula A recommends library collection sizes based on number of students, faculty and degree programs.

FORMULA A—

1. Basic collection	85,000 vols.
2. Allowance per FTE faculty member	100 vols.
3. Allowance per FTE student	15 vols.
4. Allowance per undergraduate major or minor field*	350 vols.
5. Allowance per master's field, when no higher degree is offered in the field*	6,000 vols.
6. Allowance per master's field, when a high degree is offered in the field*	3,000 vols.
7. Allowance per 6th year specialist degree field*	3,000 vols.
8. Allowance per doctoral field*	25,000 vols.

A "volume" is defined as a physical unit of a work which has been printed or otherwise reproduced, typewritten, or handwritten, contained in one binding or portfolio, hardbound or paperbound, which has been catalogued, classified, or otherwise prepared for use. Microform holdings should be converted to volume-equivalents, whether by actual count or by an averaging formula which considers each reel of microfilm, or ten pieces of any other microform, as one volume-equivalent.

*For example of List of Fields, see Gerald S. Malitz, *A Classification of Instructional Programs*. Washington, D.C.: National Center for Education Statistics, 1981.

An analysis of UMR data shows a need for 665,000 volumes and our current holdings are approximately 425,000 volumes. The ACRL further assigns a letter grade as follows:

A = 90 - 100% of standard

B = 75 - 89

C = 60 - 74

D = Less

By this standard UMR's collections rate a very low "C". A high "C", say a 70 or better, would require another 40,000 volumes - which would take another 10 years or so at today's acquisition rate, and little of the collection would be current. As a very minimal goal, adding 10,000 volumes per year would allow for a high "C" by 1995. At the current average volume price for our items added last year, this would cost \$680,000 per year rather than \$485,000 currently allocated to library acquisitions - an increase of \$195,00 to the library acquisitions budget.

If a higher goal, say a middle "B", were set, the library collection would need to grow to 545,000 volumes. At current rates and as a 10 year goal, this scheme would call for an additional 120,000 volumes at an annual additional cost of \$331,000. A "B" rating in 10 years is a reasonable goal.

An ideal might be to achieve 90% of the standard, requiring a contribution to libraries of \$1.2M annually for acquisitions - approximately 2.5 times current levels.

The ACRL also recommends a formula for determining staff sizes - Formula B.

FORMULA B—

Enrollment, collection size and growth of collection determine the number of librarians required by the college and shall be computed as follows (to be calculated cumulatively):

1 - For each 500, or fraction thereof, FTE students up to 10,000	1 librarian
2 For each 1,000, or fraction thereof, FTE students above 10,000	1 librarian
3 For each 100,000 volumes, or fraction thereof, in the collection	1 librarian
4 For each 5,000 volumes, or fraction thereof, added per year	1 librarian

Libraries which provide 90-100 percent of these formula requirements can, when they are supported by sufficient other staff members, consider themselves at the A level in terms of staff size; those that provide 75-89 percent of these requirements may rate themselves as B; those with 60-74 percent of requirements qualify for a C; and those with 50-59 percent of requirements warrant a D.

UMR rates a very low "D" on this scale. A low "C" would be a very modest goal, calling for no more than 2 additional staff.

To recap -

	1.	Library acquisitions at a minimum (10,000/yr)	\$680,000
Essential		Staffing at current levels	\$578,425
		E & E - Current level plus 10% of additional acquisitions \$ for cataloging costs	<u>\$ 87,440</u>
			\$1,345,865
	2.	Library acquisitions to achieve a middle " B" in 10 years	\$789,000
Moderate Increase		Staffing at a low "C"	\$638,425
		E & E - Current level plus 10% of additional acquisitions \$ for cataloging costs	<u>\$ 97,040</u>
			\$1,524,465
	3.	Library Acquisitions to achieve a low "A" in 10 years	\$1,200,000
		Staffing at a middle "C" (add 4 staff)	\$ 678,425
A Goal for Excellence		E & E - Current level plus 10% of additional acquisitions \$ for cataloging costs	<u>\$ 135,440</u>
			\$2,013,865

DRAFT

MEMORANDUM TO: Vincent D. Roach, President,
Academic Council

FROM: Library & Learning Resources Committee

RE: UMR Library Funding Goals

Enclosed are library funding goals developed by the Library & Learning Resources Committee.

The library committee believes that the library and the learning resources it provides must be prominent on this campus and that UMR must be aggressive in exploring new opportunities for our library if we are truly to be Missouri's Technological University.

The underlying philosophy of the plan is

- that in an era of rapid technological change the library must be an integral part of the instructional and research programs at UMR.
- that the library and learning resources at UMR must be state-of-the-art and must be continually updated.

The committee recommends

- that the budget in the near term (by 1995) be brought up to 3.5% and in the long term (by 2000) to 5.0% of the total educational and general (E&G) expenditures.

CONSTITUTION
For The
STUDENT BRANCH
Of The
American Society for Quality Control
At The
UNIVERSITY OF MISSOURI-ROLLA
Rolla, Missouri

Prepared January 1991

AMERICAN SOCIETY FOR QUALITY CONTROL (ASQC)
MILWAUKEE, WISCONSIN

ASQC STUDENT BRANCH CONSTITUTION

1. NAME, OBJECTIVES, AND AFFILIATION

Section 1.1 Name

- 1.1.1 The name of this organization shall be the Student Branch of the American Society for Quality Control at the University of Missouri-Rolla, hereafter referred to as the Student Branch.

Section 1.2 Objectives

- 1.2.1 The objectives of this Student Branch shall be the advancement of the theory and practice of Quality Control and of the allied arts and sciences, and the maintenance of high professional standing among its members. To this end, its purposes shall be those set forth in Article I Section 1.b of the Society's Constitution.
- 1.2.2 This Student Branch shall have a two-fold purpose of (1) encouraging and providing the means for the development of high professional skills in students, and (2) enlightening the students of the University of Missouri-Rolla as to the nature and importance of the profession of Quality Control.

Section 1.3 Affiliation

- 1.3.1 This Student Branch is formed and governed under the provisions of the Constitution and Bylaws of the American Society for Quality Control (ASQC) referred to herein as the Society.
- 1.3.2 The sponsoring section of this Student Branch shall be the Mid-Missouri section of ASQC. The sponsoring section shall make available resources of the section, particularly financial.

2. MEMBERSHIP/PARTICIPATION

Section 2.1 Non-Members

- 2.1.1 Any student or faculty member of the University of Missouri-Rolla or a guest of this Student Branch who is not a member of the Society or this Student Branch may attend any regular meeting of this Student Branch but may not vote.
- 2.1.2 The attendance of a non-member at special activities of this Student Branch is to be allowed at the discretion of the Student Branch Executive Committee.

Section 2.2 Student Members

- 2.2.1 Any enrolled student of the University of Missouri-Rolla who meets the requirements set forth in the ASQC National Constitution for student membership may become a Student Member.
- 2.2.2 Those students enrolled in the Society as a Student Member are referred to as such in this document.
- 2.2.3 An eligible Student Member applying for admission as a Member or Associate Member of the Society shall become a member of a Section and shall be ineligible for membership in this Student Branch. This in no way precludes attendance and participation in the activities of this Student Branch.

3. FINANCIAL

Section 3.1 Dues

- 3.2.1 Dues shall be the amount stipulated in the Bylaws of the Society and shall ordinarily be paid directly to the Society. Dues for the current fiscal year shall accompany all applications for membership as Students in the Society.
- 3.2.2 The membership of a Student shall cease as of September 30 of any subsequent fiscal year unless dues in full for said subsequent fiscal year are received before September 30 (ASQC B-L Sec. 8).

4. STUDENT BRANCH OFFICERS

Section 4.1 Student Branch Officers

4.1.1 The Officers of this Student Branch shall be:

Student Chairman
Student Vice Chairman
Student Branch Secretary

Section 4.2 Selection of Student Branch Officers

4.2.1 Student Branch Officers shall be selected by an election at the last regular Student Branch meeting of the spring semester. Duly elected Officers shall assume their duties at the next meeting of the Student Branch Executive Committee.

Section 4.3 Temporary Student Branch Officers

4.3.1 The Student Branch Executive Committee, as stated in Section 6.2.3 of this Constitution, shall have the power to create Temporary Student Branch Offices and select persons to hold these positions.

4.3.2 Temporary offices are to last no longer than two semesters unless appropriate amendments are made to the rules and regulations.

5. POWERS AND DUTIES OF COUNSELOR AND STUDENT BRANCH OFFICERS

Section 5.1 Counselor (Faculty Advisor)

5.1.1 The Counselor of this Student Branch is to be a member of the University of Missouri-Rolla faculty and a member of the American Society for Quality Control.

5.1.2 The Counselor of this Student Branch is responsible for providing advice and guidance to this Student Branch, as well as for overseeing the operations of this Student Branch.

5.1.3 The Counselor may delegate duties to the Student Officers of the Student Branch in order to develop the skills and abilities of the Students in the management of professional organizations.

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UNIVERSITY OF MISSOURI-ROLLA

Attachment III.A

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: January 10, 1991, Meeting

EC1's Reviewed:

EC1 302, Speech & Media Studies, 201 Missouri London, Contemporary Issues in Telecommunications. Approved for Winter 1991. 3 hours credit. No prerequisites.

EC1 303, Speech & Media Studies, 201 Missouri London, Anglo-American Jurisprudence. Approved for Winter 1991. 3 hours credit. No prerequisites.

EC1 304, Nuclear Engineering 401, Applications of the Finite Element Method. Approved for Winter 1991. 3 hours credit. Prerequisites: CSc 228 or NE 311.

EC1 305, Nuclear Engineering 301, Radiation Protection Engineering. Approved for Fall 1991. 3 hours credit. Prerequisites: NE 205.

EC1 306, Nuclear Engineering 301, Radioactive Waste Management. Approved for Fall 1991. 3 hours credit. Prerequisite: Math. 204.

EC1 307, Applied Arts & Cultural Studies, 201 Missouri London, Legal Environment of Business. Approved for Winter 1991. 3 hours credit. No prerequisites.

EC1 308, Basic Engineering 101, Academic Skills. Approved for Winter 1991. .5 hour credit. No prerequisite.

CC1's Reviewed:

CC1 3342, Psychology 212, Industrial Psychology. Approved for Fall 1991. Change in prerequisites from Psych. 50; Stat. 115 to Psych. 50.

CC1 3344, Metallurgical Engineering 315, 329, 331, 361, 367, 403, 407 and 431. Approved for Fall 1991. Change in prerequisites from; all include Met 217 to; Met 217 and Met 218. (All other prerequisites remain the same for the courses listed above.)

CC1 3345, Metallurgical Engineering 121, Metallurgy for Engineers. Approved for Fall 1991. Change in prerequisites from Phy 21, Chem 1 to Phy 23, Chem. 1

Attachment III.A

CC1 3346, Metallurgical Engineering 215, Fundamentals of Metals Behavior. Approved for Fall 1991. Change in prerequisite from Met 122 to Met 121.

CC1 3347, Metallurgical Engineering 281, Metallurgical Thermodynamics I. Approved for Fall 1991. Change in prerequisites from Met 122, Math 22 to Met 121, Met 125, Math 22.

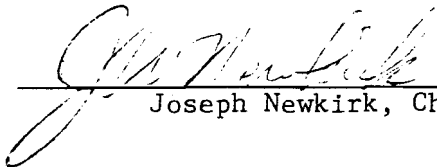
CC1 3348, Metallurgical Engineering 307, Metals Casting. Approved for Fall 1991. Change in prerequisites from Met 221 to Met 221 or ME 53.

CC1 3349, Metallurgical Engineering 385, Mechanical Metallurgy. Approved for Fall 1991. Change in prerequisites from Met 221, 215 & BE 110 to Met 215, 216 & BE 110.

CC1 3350, Metallurgical Engineering 313, Electron Microscopy. Approved for Fall 1991. Change in prerequisites from Met 213 or course in optical microscopy to A course in optical microscopy; or both Met 215 and Met 216.

CC1 3353, Nuclear Engineering 431, Radiation Shielding. Approved for Fall 1991. Change in catalog description which reads: Radiation sources; interactions of radiation with matter; dosimetry and radiation protection guidelines. The particle transport equation and methods of solving it; the Monte Carlo method; special computational methods for neutron and gamma attention. computer codes used in shielding. Shielding materials, shield design.

CC1 3354, Nuclear Engineering 307, Nuclear Fuel Cycle. Approved for Fall 1991. Change in catalog description which reads: Nuclear fuel reserves and resources; milling, conversion, and enrichment; fuel fabrication; in-and-out-of core fuel management; transportation, storage, and disposal of nuclear fuel; low level and high level waste management, economics of the nuclear fuel cycle.



Joseph Newkirk, Chair

JN/dm



UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council

FROM: Curricula Committee

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CC1 3345, Metallurgical Engineering 121, Metallurgy for Engineers. Approved for Fall 1991. Change in prerequisites from Phy 21, Chem 1 to Phy 23, Chem. 1.

- G. Committee on Effective Teaching (No Report) Dale Elifrits (4847)
 - 1. Student Evaluation Form Update
- H. Ad Hoc Committee on Research Environment (5 min.) Tim Gay (4797)
 - 1. Research Enhancement Committee Report Review
(September 13, 1990; XX, 1; III.B.5)
- I. Intercampus Faculty Council (ICFC) (5 min.) Vince Roach (4449)

IV. Old Business

V. New Business

R, P & A Cmtt.
DA/cmb/1-10-91

*Supplementary materials sent to Academic Council members and department
chairmen.



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

202 Norwood Hall
Rolla, MO 65401-0249
Telephone (314) 341-4972

VOL. XX, NO. 4
January 24, 1991

SUMMARY of the reports, actions, referrals and announcements made at the meeting of the Academic Council held on January 24, 1991.

1. Call to order.
2. Reports and responses.
 - A. President's report - V. Roach
 - B. Referrals
 1. Revised tenure and promotion document to the Personnel Committee
 - C. Chancellor's report - M. Jischke
 1. McDonnell-Douglas grant
 2. Enrollment services division
 3. Budget status
3. Reports of standing and special committees.
 - A. Curricula - J. Newkirk
 1. Report No. 4, 1990-91
 - a. Seven experimental courses presented
 - b. Ten course/curriculum changes approved (Attachment III.A)
 - B. Personnel - L. Haynes
 1. Concerns relative to procedures in policies on research dishonesty
 - C. Rules, Procedure and Agenda - D. Askeland
 1. Vacancy - Student Affairs Committee
 - D. Intercampus Faculty Council (ICFC) - V. Roach

Attachments: III.A



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

202 Norwood Hall
Rolla, MO 65401-0249
Telephone (314) 341-4972

VOL. XX, NO. 4
January 24, 1991

XX, 4 The January 24, 1990, meeting of the Academic Council was
.1 called to order at 1:37 p.m. by Prof. D. Vincent Roach,
Academic Council President. As announced, Prof. Les Koval
will replace Prof. Ronald Howell in representing the
Department of Mechanical and Aerospace Engineering on
Council. Prof. Steve Douglas substituted for Interim-Dean
Glen Haddock. Ms. Brenda Ettleman was Staff Council's
representative this meeting.

XX, 4 REPORTS AND RESPONSES.
.2

A. PRESIDENT'S REPORT. In President Roach's opinion, budget
constraints, enrollment stabilization, the Cooperative
Engineering Program in St. Louis (UM-St. Louis by-laws
are being revised to include the engineering division
and McDonnell-Douglas has granted \$1.2 million toward
the effort), and U-wide/UM-Rolla long range planning
will be topics for Faculty attention within this year
and next.

B. REFERRAL.

1. REVISED TENURE AND PROMOTION DOCUMENT to the Person-
nel Committee

C. CHANCELLOR'S REPORT.

1. MCDONNELL-DOUGLAS GRANT. Chancellor Martin Jischke
corrected the possibly misleading report on the \$1.2
million grant which is meant for both UMR and St.
Louis engineering programs. It is conditioned upon
progress of the St. Louis Cooperative program and
will be divided at the discretion of President
Magrath.

2. ENROLLMENT SERVICES DIVISION. Chancellor Jischke
announced the intended development of an Enrollment
Services Division consisting of the Registrar,
Admissions office, Financial Aid, and a Pre-College
effort which has not yet been funded.

While consensus has been noted for a more
aggressive, market-oriented admission effort, concern
has been voiced on the establishment of another
administrative position -- Associate Vice-Chancellor
for Enrollment -- which will be financed by
reallocation of administrative funds and the
reduction of six physical plant jobs. Chancellor
Jischke's rationale for the position was to fulfill

the requirement of talent (to include marketing and management) needed to lead the effort (a conclusion reached by Marketing Horizons and George Dane), and to fulfill the need for program accountability.

Reversing the enrollment trend of the past eight to nine years would be beneficial since (1) low enrollment in times of tight budgets is detrimental; (2) Missouri college rates are currently below national norms; (3) more mathematical, science, and engineering graduates are necessary to meet current and future demand; and (4) a pattern of modest growth would be helpful in seeking a tax initiative.

3. BUDGET STATUS. Chancellor Martin Jischke reported that evidence indicates that we can assume completion of this year's budget without further cuts.

However, the Governor's recommendation for the FY 1992 budget calls for no additional increases above the current level of spending and deletes support of the Engineering Equipment Bill. With exception of mandatory cost increases (social security, medical benefits, to name two), one can expect no budgeted increases such as salaries.

Senator Mathewson was to propose this morning legislation calling for a \$500 million tax initiative for higher education. The proposal would need to pass the Senate, then the House, then be signed by Governor Ashcroft, and then be placed on the election ballot -- an action required by the Hancock Amendment.

XX, 4 REPORTS OF STANDING AND SPECIAL COMMITTEES.
 .3

A. CURRICULA.

1. REPORT NO. 4, 1990-91. Prof. Joe Newkirk moved for approval of the CCI report which listed ten course/curriculum changes. Prof. Selden Trimble seconded the motion, and the motion carried. (Attachment III.A)

B. PERSONNEL.

1. CONCERNS RELATIVE TO PROCEDURES IN POLICIES ON RESEARCH DISHONESTY. Prof. Lance Haynes reported that the topic was considered by the Committee and an opinion forwarded to President Roach for remittance

to Vice-Chancellor Park. Prof. Haynes moved for removal from the Agenda. Prof. Lance Williams seconded the motion, which passed.

C. RULES, PROCEDURES, AND AGENDA.

1. VACANCY - STUDENT AFFAIRS COMMITTEE. Prof. Donald Askeland announced that Prof. Richard Hall (runner-up in last Summer's committee elections) will be replacing Prof. Ronald Howell on the Student Affairs Committee for this semester and the Summer.

- D. INTERCAMPUS FACULTY COUNCIL (ICFC). The ICFC at its December meeting devoted time discussing the UM budget [covered in the Chancellor's Report], the role of the University Press Director, and the employment of a consultant (same one which worked with the Cook Commission) to work with the Long-Range Planning Task Force, and if this is the proper consultant to engage?

The meeting adjourned at 2:10 p.m.

Respectfully submitted,



Jim C. Pogue
Secretary

Attachments: III.A

*Minutes of the Academic Council Meeting are considered official notification and documentation of actions approved.



UNIVERSITY OF MISSOURI-ROLLA

HIGHLIGHTS
ACADEMIC COUNCIL MEETING
January 24, 1991

Academic Council

202 Norwood Hall
Rolla, MO 65401-0249
Telephone (314) 341-4972

PRESIDENT'S REPORT: President Roach identified four major items that will be of special concern to the university and the faculty for both the remainder of this academic year and next year:

1. Budget constraints;
2. Stabilization of enrollment;
3. Initiation of the cooperative engineering program in St. Louis;
4. University-wide (and UMR) planning.

CHANCELLOR'S REPORT: Chancellor Jischke reported to the Council on two items, (1) Enrollment Services and (2) the Budget:

1. An Office of Enrollment Services is to be established which, in part, combines the operations of our current offices of Admission, Registrar, and Financial Aid. Among the several reasons for the reorganization is UMR's need for a more aggressive, market-oriented program of student recruitment, etc. Other reasons for the new office are the following: (1) if we are to increase enrollment, we need more people working at it; (2) if we are to have a modern, market-oriented program, we need some new skills; (3) an administrative head for the new program will provide accountability; and (4) consultants and others have recommended the reorganization.

The new office will be administered by an associate vice chancellor in the office of the Vice Chancellor for Academic Affairs. The new position will be funded by a reallocation of funds from the administrative side of the campus. The process to fill the position is underway.

2. The Chancellor noted that no further cuts are anticipated in the budget for this year, Fiscal 91. For Fiscal 92, the governor has recommended an essentially flat budget. Thus, given that recommendation, for academic year 1991-2, except for mandatory cost increases (social security, for example), there will be no substantive changes in our budget--no salary increases, for example.

INTERCAMPUS FACULTY COUNCIL: Professor Roach reported briefly on the last meeting of ICFC:

1. ICFC discussed (and speculated) on the budget problems confronting the university.
2. ICFC continues to discuss the role of the Director, University Press. At a future meeting, ICFC will again meet with the director to discuss various concerns,

3. ICFC discussed the employment by the university of a consultant to advise the Long-Range Planning Task Force.

In closing these Highlights, the secretary wishes to acknowledge the several plaudits extended to President Roach at the close of the meeting for conducting, perhaps, the shortest meeting in the history of the Academic Council.

A handwritten signature in cursive script, reading "Jim C. Pogue". The signature is written in dark ink and is positioned above the printed name and title.

Jim C. Pogue
Secretary

JCP/cmb



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UMR Faculty

A G E N D A

March 21, 1991

Academic Council Meeting, Thursday, March 28, 1991; 1:30 p.m.; G-5 H/SS.

- I. Approval of minutes of the November 29, 1990 (VOL. XX, NO. 3) and the January 24, 1991 (VOL. XX, NO. 4) minutes.
- II. Reports and Responses
 - A. President's Report (10 min.) Vince Roach (4449)
 - B. Referrals
 1. Proposed University Policy on Sexual Harassment to the Personnel Committee
 2. Revision of the Discrimination Policy to the Personnel Committee
 3. University Policies and Services Related to Employees with Young Children to the Personnel Committee
 4. Extenuating Circumstances to the Admission and Academic Standards Committee
 5. Grades for Withdrawing Students to the Admissions and Academic Standards Committee
- III. Reports of Standing and Special Committees
 - A. D.6.c Admissions and Academic Standards (15 min.) Thomas Herrick (4507)
 1. Excused Absence Procedure (May 5, 1988; XVII, 8; II.B.1)
 2. Minimum Grade Procedures (April 26, 1990; XIX, 6; II.B.3)
 - *3. Repeated Course Grade Policy (October 25, 1990; XX, 2; II.B.4)
 - *4. Delayed Grade Policy (October 25, 1990; XX, 2; II.B.5)
 - *5. Substitution/Waiver Policies and CAPS (October 25, 1990; XX, 2; II.B.6)
 6. Clep General Exam (October 25, 1990; XX, 2; II.B.7)
 7. Final Examination Policy (October 25, 1990; XX, 2; II.B.8)
 - B. D.6.g Campus Safety Committee (No Report) John Carstens (4361)
 1. Hazardous Chemicals/Waste Materials Policy Draft (June 14, 1990; XIX, 7; II.B.1)
 - C. D.6.i Curricula (5 min.) Joe Newkirk (4725)
 - *1. Report No. 5, 1990-91
 - *2. Catalogue of Record for Graduation Requirements (October 25, 1990; XX, 2; II.B.3)
 - D. D.6.o Personnel (10 min) Lance Haynes (4803)
 1. Faculty Evaluation of Department Chairs (March 29, 1990; XIX, 5; II.B.3)
 2. UM Sexual Harrassment Policy Proposal (June 14, 1990; XIX, 7; II.B.3)
 3. Revised Affirmative Action Procedures (October 25, 1990; XX, 2; II.B.1)
 4. Revised Tenure and Promotion Document (January 24, 1991; XX, 4; II.B)
 - E. D.6.s Student Affairs (5 min.) Howard Pyron (4495)
 - *1. Constitution - American Society for Quality Control

SPECTRUM

News from the Dec. 6-7 Board of Curators meeting in Columbia

A revised plan for a cooperative engineering undergraduate degree program for place-bound students in St. Louis was announced by University President C. Peter Magrath. UM-St. Louis Interim Chancellor Blanche Touhill and UM-Rolla Chancellor Martin Jischke drafted the agreement with the support and encouragement of Magrath and System Vice President for Academic Affairs Richard Wallace. The state commissioner of higher education must approve the program. The chancellors hope to initiate the program on a limited basis, Magrath said, but full implementation must await sufficient state funding.

A plan to cut an additional \$3 million from the UM System budget because of lagging state tax receipts was presented by University President C. Peter Magrath. Following this latest reduction, state funds available to the System are just 1.8 percent above last year's spending level, Magrath noted. The \$3 million goal will be met by leaving positions unfilled, deferring equipment replacement and using some unanticipated revenues from educational fees and interest income. The four chancellors recommended the measures, following faculty-staff consultation. "It does hurt and it does have real impact on students, faculty and staff," Magrath said.

Two lawyers, Webb R. Gilmore and John P. Lichtenegger, will lead the board in 1991 as president and vice president, respectively. Gilmore is from Kansas City and Lichtenegger is from Jackson.

The board urged the University to help students, faculty and staff who are called to active duty as a result of the Middle East situation. Students called to active service will be given refunds if they are unable to complete the semester, University President C. Peter Magrath said. He encouraged faculty and staff to work with students to resolve resulting financial and academic dilemmas.

The Distinguished Teaching Professorship has been approved by the board to honor outstanding teachers in the System. The professorship was proposed by the Rolla campus, but any campus may recommend faculty members for the title, which must be curator-approved. The honor is similar to the Curators' Professorship.

Curator Peter Raven, during the last remarks of his board term, blasted the state of Missouri for being "doomed to mediocrity by our miserly attitudes." In his curator's seminar, Raven said the University has a "potentially magnificent mission," but severe underfunding has caused the institution to decline to a "depressed condition." He added, "Low taxes has become a soothing mantra for Missourians, but it is a deadly message."

Faculty Awards: Twenty-eight University of Missouri academicians have received awards of financial support from the Missouri Research Assistance Act. Four UM System researchers have been awarded financial support through the Alzheimer's Disease and Related Disorders Program. Two University professors also were appointed to the credit hours, the board has decided. The previous waiver only covered educational fees.

Royalties for licenses and patents developed on the University's four campuses reached an all-time high for fiscal year 1990. The total, \$367,600, is more than five times the 1986 total. "I believe it reflects the success of our patents and licensing office in developing technology transfer applications for faculty inventions," said Mark Burkholder, associate vice president for academic affairs.

UM System libraries are challenged today by the need to support printed information resources "while simultaneously finding the way and the money to deal effectively with the electronic information explosion," said Mark Burkholder, associate vice president for academic affairs, in his report to the board on System libraries. The development of state, regional and national computer networks makes it possible for users on any UM System campus to access on-line library systems across the nation. Many standard library reference tools are being made available in electronic form.

Next meeting: January 30-31 in Jefferson City



UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: February 14, 1991, Meeting

CC1 3222, Mining Engineering. Approved for Fall 1991. Emphasis area in Quarry Engineering. Justification: the stone, sand, and aggregate industry indicates that some 50 jobs which require this type of background will be open per year in the U.S. for the foreseeable future. UMR and the National Stone Association had developed this emphasis program, and the NSA has a grant to support it with scholarship money.

CC1 3335, Physics 007, Environmental Physics II. Approved new course for Fall 1991. 3 hours credit. No prerequisites. Description reads: A companion course to Environmental Physics I: A non-mathematical course treating problems of the environment: Population, limits to growth, world resources, conventional and alternative energy sources, atmospheric physics, land degradation, air and water pollution and control.

CC1 3319, Civil Engineering 205. Approved change in curriculum effective Fall 1991. Justification: In the Fall 1988 major curriculum change, CE 205 - Professional Guidance (0 hr) was deleted and CE 299 - Civil Engineering Design (2 hr. capstone course) was added. However, certain nondesign aspects formerly presented in CE 205 are not pertinent to CE 299. This change reinstates these items into the curriculum by addition of CE 210 Seminar.

CC1 3351, Civil Engineering 210, Seminar. Approved new course for Fall 1991. 0 credit hours. Prerequisite: Senior standing. Description reads: Discussion of current of topics.

CC1 3352, Physics 302, Physics for Elementary School Teachers. Approved new course for Fall 1991. 2 hours lecture and 1 hour lab. Prerequisites: None. Description reads: A nonmathematical review of the fundamental ideas of physics, including mechanics, matter, energy, sound, electricity, magnetism, astronomy, and light. Emphasis is placed on the development of hands-on activities. (For elementary school teachers or Master of Science for Teachers candidates only.)



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CC1 3357, Geology 210, Seminar. Approved for Fall 1991. Change in credit hours from .5 hour to 0-6 variable hours credit.

CC1 3359, Aerospace Engineering 235, Aircraft and Space Vehicle Propulsion. Approved for Fall 1991. Change in prerequisites from ME 231 or accompanied or preceded by AE 271 to ME 231 or AE 271.

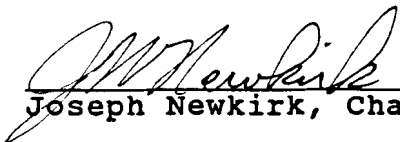
CC1 3360, Computer Science 387, Parallel Processing: Architectures, Languages and Algorithms. Approved new course for Fall 1991. 3 hours credit. Prerequisites: CSc 284 and CSc 355 (co-requisite). Description reads: Introduction to parallel (concurrent) processing. Topics will include parallel computer architectures, programming languages which support parallel processing and parallel algorithms. Special emphasis will be placed on the design, analysis and implementation of parallel algorithms.

Student's Catalog Year:

In response to Dr. Myron Parry's memo concerning the student's catalog year:

Actions of the Curricula Committee concerning curriculum changes will be effective the following fall semester. For purposes of determining students CAPS catalog year the Fall-Summer-Winter would all count as fall of that year.

(e.g. Summer 1990 - Fall 1990 - Winter 1991; all follow Fall 1990 catalog.)



Joseph Newkirk, Chair

MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: March 7, 1991, Meeting

EC1's Reviewed:

EC1 309, Computer Science 301, Parallel Computational Mathematics. Approved for Fall 1991. 3 hours credit. Prerequisites: CS 228, CS 284.

EC1 310, Chemistry 401, Advanced Spectroscopy. Approved for Fall 1991. 3 hours credit. Prerequisites: Chem 455.

EC1 311, Japanese 101, Elementary Japanese I. Approved for Fall 1991. 3 hours credit. Prerequisites: None.

EC1 312, Japanese 201, Elementary Japanese II. Approved for Fall 1991. 3 hours credit. Prerequisites: Japanese I.

EC1 313, Chinese 101, Elementary Chinese I. Approved for Fall 1991. 3 hours credit. Prerequisites: None.

EC1 314, Chinese 201, Elementary Chinese II. Approved for Fall 1991. 3 hours credit. Prerequisites: Chinese I.

EC1 316, Physics 201, Introduction to Methods of Theoretical Physics. Approved for Fall 1991. 3 hours credit. Prerequisites: Physics 21,25 or Physics 23,24; Math 22; Concurrent: Math 204.

EC1 317, Electrical Engineering 301, Senior Design Laboratory. Approved for Fall 1991. 3 hours credit. Prerequisite: Senior standing and consent of the instructor.

EC1 318, Electrical Engineering 401, Modern Frequency Methods in Control. Approved for Fall 1991. 3 hours credit. Prerequisite: EE 435.

EC1 319, Electrical Engineering 301, Optical Communications. Approved for Fall 1991. 3 hours credit. Prerequisites: EE 221, EE 273.

EC1 320, Engineering Management 301, Environmental and Solid Waste Management Issues in Packaging. Approved for Fall 1991. 3 hours credit. Prerequisite: EMgt 383.

EC1 321, Mechanical Engineering 401, Advanced Numerical Control of Manufacturing and Engineering Metrology. Approved for Fall 1991. 2 hours lecture and 1 hour lab. Prerequisite; ME 353.

EC1 322, Chemistry 401, Inorganic Materials Chemistry. Approved

for Fall 1991. 3 hours credit. Prerequisite: None.

EC1 323, Mathematics 301, Introduction to Applied Nonlinear Dynamical Systems. Approved for Fall 1991. 3 hours credit. Prerequisites: Math 302 or consent of instructor.

EC1 324, Mathematics 401, Harmonic Analysis I. Approved for Fall 1991. 3 hours credit. Prerequisite: Math 315.

EC1 325, History/Political Science 301, America and the Gulf War. Approved for Summer 1991. 3 hours credit. Prerequisites: History 112, 175 or 176.

EC1 326, Physics 201, Ecophysics. Approved for Fall 1991. 3 hours credit. Prerequisite: Physics 23 or Physics 25.

EC1 327, Physical Education and Recreation 101, Aquatic Games. Approved for Fall 1991. 1 hour lab. Prerequisite: None.

EC1 328, Metallurgical Engineering 301, Failure Analysis. Approved for Fall 1991. 3 hours credit. Prerequisites: Met 215/216.

CC1's Reviewed:

CC1 3361, Electrical Engineering 317, Fault-Tolerant Digital Systems. Approved new course for Fall 1991. 3 hours credit. Prerequisites: EE 211. Description reads: Design and analysis of fault-tolerant digital systems. Fault Models, hardware redundancy, information redundancy, evaluation techniques, system design procedures.

CC1 3363, Ceramic Engineering 261, Ceramic Engineering Design Lab. Approved for Fall 1991. Prerequisites change from none to Senior standing in Ceramic Engineering. Change in description reads: Students plan and initiate a two-semester ceramic design project. Safety, environmental and engineering economics considerations are part of overall plan.

CC1 3364, Ceramic Engineering 333, Microelectronic Ceramic Processing. Approved new course for Fall 1991. 3 hours credit. Prerequisites: Cer Engr 203 and Cer Engr 242. Description reads: Materials, processing and design of microelectronic ceramics are covered. Introduction to devices, triaxial ceramics, high aluminas, tape fabrication, metallizations, thick film processing and glass-to-metal seals.

CC1 3367, Mining Engineering 416, Advanced Mineral Engineering Design II. Approved deletion.

CC1 3368, Mining Engineering 323, Mineral Financial Administration. Approved deletion.

CC1 3369, Mining Engineering 372, Mining Engineering-Offshore

Mining. Approved deletion.

CC1 3370, Ceramic Engineering 262, Ceramic Engineering Design Lab. Approved for Fall 1991. Change in prerequisites from Cer Engr 221 and 223 to Senior standing. Change in description which reads: Students undertake selected open-ended projects which represent a capstone design experience, integrating skills and understanding from previous courses. This course and Cer 261 cap the required design experience for the degree in Ceramic Engineering.

CC1 3372, Computer Science 071, Introduction to Basic. Approved for Fall 1991. Change in course number from 371. Change in description which reads: An introduction to Microsoft and IBM PC BASIC. Emphasis on language syntax, structured programming and problem solving. To be offered on sufficient demand.

CC1 3373, Computer Science 072, Software Applications on the PC. Approved for Fall 1991. Change in course number from 372. Change in description which reads: An introduction to operating systems, word processing, spread sheets, and data base manipulation. To be offered on sufficient demand.

CC1 3374, Computer Science 217, Computers and the Law. Approved new course for Fall 1991. 3 hours credit. Prerequisite: Junior standing. Description reads: A presentation of the U.S. legal system and its interaction with computer science. Accreditation issues in liability and malpractice, protection of computer oriented intellectual property, patents, trade secrets and copyright, computer crime, ethics in computer science.

CC1 3375, Nuclear Engineering 304, Reactor Laboratory I. Approved for Fall 1991. Prerequisites change from NE 204 and NE 205 to English 160, NE 204 and NE 205.

CC1 3376, Nuclear Engineering 204, Nuclear Radiation Measurements. Approved change in prerequisites from Preceded or accompanied by NE 203 or Phy 107 & Stat 215 to Preceded or accompanied by Engl 160, and Ne 203 or Phy 107.

CC1 3377, Petroleum Engineering 232, Well Logging I. Approved for Fall 1991. Change in course hours from 3 hours lecture to 2 hours lecture and 1 hour lab.

CC1 3378, Statistics 215, Engineering Statistics. Approved for Fall 1991. Change in course title from Engineering Statistics I.

CC1 3379, Mathematics 003, Fundamentals of Algebra. Approved new course for Fall 1991. 3 hours credit. Prerequisite: Entrance requirements. Description reads: Basic principles of algebra including the number line and an introduction to equations and inequalities, polynomials, rational expressions, exponents and radicals, the quadratic formula and functions.

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-2-

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-4-

CC1 3380, Statistics 115, Statistics for the Social Sciences I. Approved for Fall 1991. Course title changed from Introductory Statistics.

CC1 3381, Statistics 116, Statistics for the Social Sciences II. Approved for Fall 1991. Change in course title from Statistics for Social and Behavioral Sciences. Prerequisites change from none to Statistics 115.

CC1 3384, Geological Engineering 346, Geographic Information Systems. Approved for Fall 1991. Change in course title from Remote Sensing and Resource Database Analysis.

CC1 3386, Physics 008, Laboratory for Environmental Physics. Approved new course for Fall 1991. 1 hour credit. Prerequisite: Co-requisite: Environmental Physics. Description reads: A laboratory course to accompany the Environmental Physics lecture course as an option. A set of five experiments will be performed including studies of biodegradability of substances, soil and water sampling, waste recycling, air and water purification, and energy conservation.

CC1 3387, Metallurgical Engineering 126, Computer Application in Metallurgical Engineering. Approved for Fall 1991. Change in credit hours from 1 hour lab to 1 hour lecture and 1 hour lab. Change in course title from Metallurgy Application laboratory. Change in description which reads: Introduction to the use of microcomputers for simulation, data analysis, data acquisition and equipment control. The course will provide instruction in programming and software usage and the laboratory will enable students to fully utilize the potential of microcomputers in later courses.

CC1 3388, Metallurgical Engineering 000. Approved change in curriculum for Fall 1991. Justification reads: Curriculum reorganization to permit deletion of CSc 73, which is not appropriate for metallurgy students in the light of recent course developments. Elements of BASIC programming will be introduced in an expanded Met 126 and the necessary extra hour will be used to provide a much needed increase in technical elective hours.

The Curriculum Committee asks the advice of the Academic Council for the CC1 forms which are too late for the Schedule of Classes but not for the Revised Schedule of Classes. The Revised Schedule of Classes will reflect the changes which the Schedule of Classes does not. This could cause problems when labs or added, course hours are changed, course numbers changed from levels of 300 to 200, prerequisite changes, etc.



Dr. Joseph Newkirk, Chair

approved by UMKC Senate, 3/26/91

Moved by the UMKC Faculty Senate That;

The Faculty Senate of UMKC strongly endorses the right of each campus to conduct any mandated assessment of general education in the manner that is determined to be most satisfactory by the individual campus assessment committee.

Further we strongly recommend the continuation of the mandated assessment on this campus with the assessment in the senior year using the instrument that, is now and, has been used for for the past three years.

Only in this manner can we systematically assess, over time, student achievement in a manner that recognizes the diversity and unique educational character of the programs on each campus.

March 26, 1991

- F. D.6.t Student Awards and Financial Aids (No Report) John Sheffield (4690)
 - 1. Unofficial Withdrawal Policy (June 14, 1990; XIX, 7; II.B.2)
 - 2. Work Study Assignment Practices (September 13, 1990, XX, 1; III.B.6)
- G. Committee on Effective Teaching (No Report) Dale Elifrits (4847)
 - 1. Student Evaluation Form Update
- H. Ad Hoc Committee on Research Environment (5 min.) Tim Gay (4797)
 - 1. Research Enhancement Committee Report Review (September 13, 1990; XX, 1; III.B.5)
- I. Intercampus Faculty Council (ICFC) (5 min.) Vincent Roach (4449)

IV. Old Business

V. New Business

R, P & A Cmtt.
DA/cmb/S-12-91

*Supplementary materials sent to Academic Council members and department chairmen.



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

202 Norwood Hall
Rolla, MO 65401-0249
Telephone (314) 341-4972

VOL. XX, NO. 5
March 28, 1991

SUMMARY of the reports, actions, referrals and announcements made at the meeting of the Academic Council held on March 28, 1991.

1. Approval of minutes of the November 29, 1990, and the January 24, 1991, minutes.
2. Reports and responses.
 - A. President's report - V. Roach
 1. Board of Curator's (Attachment II.A.1)
 2. UM Planning Task Force
 3. Personnel Changes (Attachment II.A.3)
 - B. Referrals
 1. Proposed university policy on sexual harassment to the Personnel Committee
 2. Revision of the discrimination policy to the Personnel Committee
 3. University policies and services related to employees with young children to the Personnel Committee
 4. Extenuating circumstances to the Admissions and Academic Standards Committee
 5. Grades for withdrawing students to the Admissions and Academic Standards Committee
 6. Student expectations of professors in teaching of classes to the Ad Hoc Committee on Teaching Effectiveness
3. Reports of standing and special committees.
 - A. Admissions and Academic Standards - T. Herrick
 1. Repeated course grade policy
 2. Delayed grade policy
 3. Substitution/waiver policies and CAPS (Attachment III.A)
 - B. Curricula - J. Newkirk
 1. Report No. 5a, 1990-91 and catalogue of record for graduation requirements
 - a. Five new courses approved
 - b. Three course/curriculum changes approved (Attachment III.B.1)
 2. Report No. 5b, 1990-91
 - a. Nineteen experimental courses presented
 - b. Five new courses approved
 - c. Thirteen course/curriculum changes approved
 - d. Three course deletions approved (Attachment III.B.2)

an equal opportunity institution

- C. Personnel - L. Haynes
 - 1. UM sexual harassment policy proposal
 - 2. Revised tenure and promotion document
(Attachment III.C.2)
- D. Student Affairs - H. Pyron
 - 1. Constitution - Student Chapter of the American Society for Quality Control
(Attachment III.D)
- E. Ad Hoc Committee on Research Environment - T. Gay
 - 1. Research Enhancement Committee report
(Attachment III.E)
- F. Intercampus Faculty Council (ICFC) - V. Roach
(Attachment III.F)

4. New business.

- A. Reading day - K. Robertson
- B. Admissions and Academic Standards - T. Herrick
 - 1. Clep general exam

Attachments: II.A.1
II.A.3
III.A
III.B.1
III.B.2
III.C.2
III.D
III.E
III.F



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VOL. XX, NO. 5
March 28, 1991

XX, 5 The March 28, 1991, meeting of the Academic Council was
.1 called to order at 1:35 p.m. by Prof. D. Vincent Roach,
Academic Council President. The following substitutions
were noted: Prof. Sarah Preston for Prof. Travis Boulware
and Prof. Alan Lin for Prof. Donald Cronin. Ms. Virginia
Ryle and Ms. Eunice Mace were recognized as Staff Council's
representatives.

A motion to approve the November 29, 1990, minutes was made.
The motion was seconded and passed. One spelling correction
was noted: within the Chancellor's report, the consultant's
name is Dehne, not Dane.

A motion to approve the January 24, 1991, minutes as written
was made, seconded, and passed.

XX, 5 REPORTS AND RESPONSES.
.2

A. PRESIDENT'S REPORT.

1. BOARD OF CURATOR'S. President Roach reported that
the Board at their last meeting approved a 12
percent increase in student fees effective this
summer. Prior to passage, the Board noted that this
increase should be borne by the state rather than
the students. Per President Magrath's action, there
will be no faculty/staff compensation increase for
the next academic year and areas benefiting from the
12 percent fee increase will be disclosed at the
June Board meeting. It was announced that a special
meeting of the Academic Council will be scheduled on
Thursday, April 11, at 1:30 p.m. to discuss the
President's intended division of the fee increase.

By resolution, the Central Administration has
required the development of a Board-acceptable plan
for the common assessment of general education on
all four campuses. If necessary, the Board will
mandate a common assessment tool--the C-Base Exam,
which was developed by the University of
Missouri-Columbia Education School, copyrighted by
the Curators, and distributed nationally.
University of Missouri-Rolla's position is to
continue usage of the AP long form and our own
individualized program of assessment. Both the
University of Missouri-St. Louis and the University
of Missouri-Kansas City have stated preference for

individualized general education assessment. The University of Missouri-Kansas City Faculty Senate resolution of March 26, 1991, is attached. (Attachment II.A.1)

2. UM PLANNING TASK FORCE. Appointed by President Magrath, the task force consists of the four UM chancellors, the four faculty chairs, four Curators, and three Vice-Presidents. It has been meeting once a month for the past year, and three more meetings have been scheduled prior to reporting. The meeting agenda has been set: April 9 -- the role and function of the system office (University Hall) and the Board of Curators; May 1 -- Campus planning (institution statements of strategic priorities, institution specific goals, program review); and the last meeting -- finances and public relations.
3. PERSONNEL CHANGES. Chancellor Martin Jischke has resigned (as of June 1) to become President of Iowa State. Vice-Chancellor John Park has been appointed Interim-Chancellor.

The Academic Council office secretary has tendered her resignation.

The appointment of the Vice-Chancellor for Administrative Affairs as Interim Athletic Director has caused faculty concern. The attached letter, at the Rules, Procedure and Agenda Committee's behest, was drafted and forwarded to Chancellor Jischke yesterday. Concerns voiced during Council discussion involves external perception, the extra workload with the additional compensation, the possibility of nepotism, and non-academic administration over non-tenured faculty. (Attachment II.A.3)

B. REFERRAL.

1. PROPOSED UNIVERSITY POLICY ON SEXUAL HARASSMENT to the Personnel Committee
2. REVISION OF THE DISCRIMINATION POLICY to the Personnel Committee
3. UNIVERSITY POLICIES AND SERVICES RELATED TO EMPLOYEES WITH YOUNG CHILDREN to the Personnel Committee
4. EXTENUATING CIRCUMSTANCES to the Admissions and Academic Standards Committee

5. GRADES FOR WITHDRAWING STUDENTS to the Admissions and Academic Standards Committee
6. STUDENT EXPECTATIONS OF PROFESSORS IN TEACHING OF CLASSES to the Ad Hoc Committee on Teaching Effectiveness.

XX, 5 REPORTS OF STANDING AND SPECIAL COMMITTEES.

.3

A. ADMISSIONS AND ACADEMIC STANDARDS.

1. REPEATED COURSE GRADE POLICY. Prof. Thomas Herrick moved that the Council endorse the procedure in use by the Registrar's office (use of the last course grade in the degree audit) and to include the procedure in the Manual of Information under "III. Schedules, No. 6, Registration for Credit in Excess of Graduate Requirements." Cumulative GPA would still reflect both grade attempts. Prof. Jim Pogue seconded the motion. Exception was taken to the proposed listing in the Manual of Information, and Prof. Herrick indicated that the request for the creation of a new section would be an editorial change. The motion carried.
2. DELAYED GRADE POLICY. Prof. Herrick moved for acceptance of the recommendation (2) allowing for the use of a delayed grade for Undergraduate Research 390 with conversion to a final letter grade no later than the following regular semester; and (2) including this additional specification in the Manual of Information. The motion was seconded by Prof. Lance Haynes and carried when President Roach called for the question.
3. SUBSTITUTION/WAIVER POLICIES AND CAPS. Prof. Herrick moved for approval of the course substitution procedure which requires completion of a form by student advisors with approval by the Dean and Chair of the degree granting department. Prof. Ken Robertson provided the second, and the motion passed when the question was called.
(Attachment III.A)

B. CURRICULA.

1. REPORT NO. 5a, 1990-91 AND CATALOGUE OF RECORD FOR GRADUATION REQUIREMENTS. Prof. Joe Newkirk moved for the approval of the Curricula Committee February 14, 1991, report consisting of five new course

offerings, three course changes, and the recommendation that action on curriculum changes be effective for the following Fall catalogue of record. Prof. Lance Haynes seconded the motion, which carried. (Attachment III.B.1)

2. REPORT NO. 5b, 1990-91. Prof. Newkirk moved for approval of the March 7, 1991, report with recommendations on five new courses, three course deletions, and thirteen course/curriculum changes. Prof. Jim Pogue provided the second, and the motion passed.

Council will consider the committee request for advice on "CC1 forms which are too late for the Schedule of Classes but not for the Revised Schedule of Classes" at a later meeting.
(Attachment III.B.2)

C. PERSONNEL.

1. UM SEXUAL HARASSMENT POLICY PROPOSAL. Prof. Haynes reported that the other campuses concerned over parts of the harassment policy, considered by this body last year, caused this newest revision. Six weeks ago Chancellor Jischke received this request for review and response. Prof. Haynes indicated that the Committee decided the revision changed little but did further delineate sexual harassment. The Committee noted exception to the term "offensive" included in the following: "... sexual advances or requests for sexual activity or other verbal or physical conduct of a sexual nature when the purpose or effect of such conduct is to create an intimidating, hostile, or offensive environment. ..." Prof. Haynes explained "... while intimidation and hostility are terms that denote behaviors third parties can detect and usually can agree upon, offensiveness is more commonly something that could be as simple as a matter of taste." The Committee recommendation forwarded to the Chancellor through President Roach requested the omission of the term, "offensive." Prof. Haynes moved for removal of the topic from the agenda. Prof. Lance Williams seconded the motion, which passed.
2. REVISED TENURE AND PROMOTION DOCUMENT. In the past two years, the Personnel Committee and the Council have reviewed and revised Policy II-10 and the Procedures for Promotion and Tenure document

(exclusion: Section 3, which remains under scrutiny). In the Committee's opinion, the next step is to establish a clearer evaluation procedure because, as Prof. Haynes stated, "every year every member of the institution is entitled to and needs to have adequate information of his/her progress to date in order to set goals for the following year." Prof. Haynes moved for endorsement of the evaluative form contained in the Faculty Activities Report Package as a substitution for that which is currently in use. For this purpose, a special paragraph was added to the form. Prof. Charles Morris seconded the motion. Following stated concerns over its contractual nature, confidentiality, and comparison to the form in use, Prof. Jerry Westphal moved to table the issue. The motion was seconded and passed.
(Attachment III.C.2)

D. STUDENT AFFAIRS

1. CONSTITUTION - STUDENT CHAPTER OF THE AMERICAN SOCIETY FOR QUALITY CONTROL. President Roach recognized the availability of Mr. Brent Clark, student association representative, for questions. Prof. Howard Pyron moved for approval. Prof. Don Askeland seconded the motion which carried.
(Attachment III.D)

E. AD HOC COMMITTEE ON RESEARCH ENVIRONMENT.

1. RESEARCH ENHANCEMENT COMMITTEE REPORT. As Prof. Timothy Gay reported, the Research Enhancement Committee in its study was given three constraints on which to base the attached set of recommendations: (1) little new money would be available; (2) the research environment is good, aside from financial constraint; and (3) emphasis is placed on enhancing existing research.
(Attachment III.E)

F. INTERCAMPUS FACULTY COUNCIL (ICFC). See attachment.
(Attachment III.F)

XX, 5 NEW BUSINESS.
.4

- A. READING DAY. Prof. Ken Robertson, since students are increasingly requesting a reading day, asked for a referral to the Calendar Committee (subcommittee of the

Public Occasions Committee). Prof. Robertson also noted the loss of class time to assessment, and requested that the Calendar Committee also review that issue. A formal written request will be submitted.

B. ADMISSIONS AND ACADEMIC STANDARDS.

1. CLEP GENERAL EXAM. Prof. Herrick stated that the Committee believed that this subject would be more appropriately referred to an ad hoc committee chosen for its expertise and moved for removal from the agenda. Prof. Robertson seconded the motion, which carried.

The meeting adjourned at 3:05 p.m.

Respectfully submitted,



Jim C. Pogue
Secretary

Attachments: II.A.1
II.A.3
III.A
III.B.1
III.B.2
III.C.2
III.D
III.E
III.F

*Minutes of the Academic Council Meeting are considered official notification and documentation of actions approved.



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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HIGHLIGHTS
ACADEMIC COUNCIL MEETING
March 28, 1991

PRESIDENT'S REPORT: President Roach reported that the Board of Curators, at its last meeting, expressed concern (1) over the necessity of increasing student fees by 12 percent and (2) over no salary increases for faculty and staff. Some curators expressed specific concern that none of the 12 percent increase would go for salaries. The Board will determine the specific "uses" of the fee increase in June.

President Roach also reported that, in May, the Board will determine a mandatory assessment instrument for general education if no acceptable plan is presented to the Board by the administration. At the present, UMKC, UMR, and UMSL are together in the use of one instrument, UMC another. The Board has announced that it will mandate the UMC instrument, C-BASE, if, again, no other acceptable plan is recommended. ICFC will discuss this matter next week.

President Roach briefly commented on the work of the University Planning Task Force. The Task Force is nearing completion of its work, with only three additional meetings scheduled. Topics to be discussed at these last meetings are (1) the role and functions of the System offices; (2) the role of the Board of Curators; (3) campus planning; (4) financial planning; and (5) public relations.

President Roach then noted two faculty concerns: (1) that faculty were not informed of the Chancellor's resignation nor of Dr. Park's appointment as Interim Chancellor before the publication of those announcements in the media; and (2) that the appointment of Mr. Neil Smith as Interim Athletic Director poses some problems to the faculty. In regard to this latter appointment, President Roach read a letter sent by him to the Chancellor at the request of the RP&A expressing the specific faculty concern that Mr. Smith's appointment places academic personnel under the administrative direction and authority of a non-academic administrator. Other issues not specifically commented upon in the letter were briefly addressed by President Roach.

Finally, President Roach announced a special meeting of the Academic Council for Thursday, April 11, at 1:20 p.m. An agenda will be available on Tuesday, April 2, that will include, among other items, the salary freeze.

REPORT OF ADMISSIONS AND ACADEMIC STANDARDS COMMITTEE:

Reporting for the committee, Professor Herrick made recommendations on three agenda items: (1) Repeated Course Grade Policy; (2) Delayed Grade Policy; (3) Substitutional/Waiver Policy for CAPS reports. Each of the committee recommendations was approved by the Council, with an editorial

qualifier on Repeated Course Grade Policy with regard to the particular section of the Manual of Information it is to be listed under. Copies of the memorandum report to the Council by the Admissions and Academic Standards Committee are included with the official minutes.

CURRICULA COMMITTEE:

In addition to routine matters recommended for approval, the Council approved the following recommendation made by Professor Newkirk on behalf of the committee:

"Actions of the Curricula Committee concerning curriculum changes will be effective the following fall semester. For purposes of determining students CAPS catalog year, the Fall-Summer-Winter would all count as Fall of that year. (e.g. Summer 1990-Fall 1990-Winter 1991; all follow Fall 1990 catalog)."

The Curriculum Committee asked the advice of the Academic Council regarding "CC1 forms which are too late for the Schedule of Classes but not for the Revised Schedule of Classes. The Revised Schedule of Classes will reflect the changes which the Schedule of Classes does not. This could cause problems when labs are added, course hours are changed, course numbers changed from levels of 300 to 200, prerequisite changes, etc." The Council will consider this request at a later meeting.

PERSONNEL COMMITTEE:

On behalf of the committee, Professor Haynes recommended that the UM Sexual Harassment Policy proposal be removed from the agenda inasmuch as the Council previously forwarded the proposal to the Chancellor.

Professor Haynes also recommended Council endorsement of a revised format for the "Confidential Report of Conference Between Department Chair and Faculty Member." The Personnel Committee intended no substantive change in the report, but wished to make the revised form more specific, but nothing more than was "assumed" in the current format. After some discussion of both the revised format and current process, especially regarding confidentiality and the nature of the revision (is it not, in fact, a contract?), the recommended action was tabled. Copies of the revised format are included with the official minutes.

STUDENT AFFAIRS COMMITTEE:

The Council approved the constitution for the American Society for Quality Control (Student Branch).

AD HOC COMMITTEE ON RESEARCH ENVIRONMENT:

On behalf of this committee, Professor Gay distributed to the Council members three recommendations from the Research Enhancement Initiative Committee:



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

Admissions and Academic Standards Committee

Roger Brown
Jeffrey Cawfield
Harry Eisenman
Thomas Herrick, Chairman
David Oglesby
Jerry Westphal

MEMO TO: The Academic Council
MEMO FROM: The Admissions and Academic Standards Committee
DATE: March 20, 1991
SUBJECT: Recommendations for agenda items 3, 4, 5

3. Repeated Course Grade Policy

Occasionally a student will repeat a course and receive a grade that is lower than the first attempt. The Registrar's Office has traditionally used the grade of the last attempt in the degree audit. However, there is no academic regulation that authorizes this procedure. The Registrar has requested that the Policy be reviewed by the Council and, if approved, an appropriate addition be made to the Manual of Information.

The Committee recommends that the procedure currently in use by the Registrar's Office be endorsed by the Council.

If approved by the Council, the following addition to the Manual of Information is needed:

III. Schedules

6. Registration for Credit in Excess of Graduation Requirements
(d) If a course is repeated, the last grade will be used in determining if the requirements of the degree are satisfied.

4. Delayed Grade Policy

With the expansion of undergraduate research activities, it has become apparent that the work frequently must extend over several semesters. This is not usually due to any deficiencies or lack of effort on the part of the student; but it can be. It is more commonly due to the nature of this type of academic activity.

Currently there is no grade appropriate for allowing 390, Undergraduate Research, to extend beyond the end of a semester. Many instructors are uncomfortable with assigning a final letter grade to work that is on-going. They prefer to grade a completed body of work. For this reason, Graduate Research 490 does allow use of a delayed grade.

The Committee believes it would be appropriate to allow, at the discretion of the instructor, the use of the delayed grade (del) for 390 activities. Of course, the instructor has the option to use the regular letter grades A through U.

Since 390 is frequently spread over a two-semester sequence, it seems appropriate to require the delayed grade to be changed to a letter grade before the conclusion of the next regular semester (summer sessions excluded).

There may be come situations in which work may be scheduled over a three-semester sequence, or unusual circumstances require that it would be desirable to have a delayed grade extended beyond the next semester limit. The time limit may be extended by the appropriate academic dean under a petition process.

The Committee recommends the following addition to the Manual of Information if the Council approves the use of the delayed grade for 390.

VIII. Undergraduate Grades
1. Significance of undergraduate grades

A

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U

New ⇒ Del. Delayed Grade for Undergraduate Research 390

New ⇒ Delayed grades must be converted to final letter grades before the conclusion of the next regular semester (summer sessions excluded). In unusual circumstances the appropriate academic dean can extend the time limits.

Grades of "S" and "U" the rest of VIII, 1. remain the same

5. Substitutional/Waiver Policy for CAPS Reports

With the computerized reports of a student's academic progress, it is necessary for a more formal procedure to account for course substitutions and waivers. The Registrar's Office has designed an appropriate form and has asked the Academic Council to approve the procedure. Note that the form requires the student's advisor to approve the substitution/waiver. Both the Chairman of the Department granting the degree and the appropriate Dean must also approve.

The Committee recommends that the Council approve the procedure.

approved by UMKC Senate, 3/26/91

Moved by the UMKC Faculty Senate That;

The Faculty Senate of UMKC strongly endorses the right of each campus to conduct any mandated assessment of general education in the manner that is determined to be most satisfactory by the individual campus assessment committee.

Further we strongly recommend the continuation of the mandated assessment on this campus with the assessment in the senior year using the instrument that, is now and, has been used for for the past three years.

Only in this manner can we systematically assess, over time, student achievement in a manner that recognizes the diversity and unique educational character of the programs on each campus.

March 26, 1991



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

202 Norwood Hall
Rolla, MO 65401-0249
Telephone (314) 341-4972

March 25, 1991

Chancellor Martin Jischke
University of Missouri-Rolla
Rolla, MO 65401

Dear Martin:

On behalf of and at the request of the Rules, Procedure and Agenda Committee of the Academic Council, I am forwarding this letter to you and will read it into the Academic Council Minutes at the March 28 meeting. I am aware that neither you nor John Park can be present at the March meeting; however, we will welcome your response, if you care to make such, at the April meeting of Council.

I wish briefly to call your attention to a particular concern regarding your recent appointment of Vice Chancellor Smith as Interim Athletic Director. Before conveying this concern, let me first make a few comments regarding our athletic programs--educational and intercollegiate programs. The Department of Physical Education and Recreation has a long and proud tradition of providing unusual opportunities for the general student population to participate in fitness activities, intramural sports, and general recreational activities as well as fielding superb scholar-athletes in intercollegiate competition. The success and reputation in these endeavors must be attributed to the ability and dedication of the department's faculty and staff, coupled with the ability, quality, and competitiveness of the student athletes. In that regard, the faculty of the department, the chair of the department, and the Athletic Director have properly had faculty status and have worked effectively with departments across campus in the education, recruiting, coaching, and retention of student athletes. Every one of them is to be commended for those efforts.

Through the years we have seen constant change and improvements in many of our athletic activities/facilities/staff. With Coach Key's retirement, we began another change--a search for a new Athletic Director. The appointed Search/Screen Committee did a thorough job, but unfortunately the effort did not result in the appointment of a new permanent Athletic Director. As a consequence, last Wednesday you announced the appointment of Vice Chancellor Smith as the new Interim Athletic Director to serve whatever period of time necessary to find a new permanent Chancellor and then to search/screen/interview and appoint a new permanent Athletic Director.

From your comments in announcing this appointment, we should expect that, during this "interim" period, major decisions may be made regarding the direction of UMR participation in intercollegiate athletics--particularly in regard

Page 2
March 25, 1991

to the football program and to UMR's future participation in an athletic conference. Since such decisions involve departmental personnel who are faculty members of the UMR campus, the primary concern is the non-academic status of the appointed Interim Director of Athletics who would directly or indirectly be determining the fate of academic members of the UMR campus. This is a serious concern to the faculty. I hardly need remind you that reporting procedures on campus have been carefully constructed so that academic personnel report ultimately to the Vice Chancellor for Academic Affairs and non-academic personnel to the Vice Chancellor for Administrative Services. Thus the appointment of Mr. Smith as Interim Athletic Director places academic personnel under a non-academic administrator.

There are other concerns regarding this appointment, all of which I have discussed privately with you, Vice Chancellor Park, and Mr. Smith in previous conversations. I will be happy to discuss them with any member of our campus community at any time, but R.P.A. and I feel that the above concern is of primary importance in this appointment and that this concern should be part of the permanent record of the Academic Council.

In advance, I appreciate your consideration and attention to the contents of this communication. We look forward to your reply, if you care to make one.

Very truly yours,



D. Vincent Roach
President, Academic Council

cc: Dr. John Park
Vice Chancellor for Academic Affairs
and Interim Chancellor Designate

Mr. Neil Smith
Vice Chancellor for Administrative Services
and Interim Athletic Director



UNIVERSITY OF MISSOURI-ROLLA

Admissions and Academic Standards Committee

Roger Brown
Jeffrey Cawfield
Harry Eisenman
Thomas Herrick, Chairman
David Oglesby
Jerry Westphal

MEMO TO: The Academic Council
MEMO FROM: The Admissions and Academic Standards Committee
DATE: March 20, 1991
SUBJECT: Recommendations for agenda items 3, 4, 5

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Occasionally a student will repeat a course and receive a grade that is lower than the first attempt. The Registrar's Office has traditionally used the grade of the last attempt in the degree audit. However, there is no academic regulation that authorizes this procedure. The Registrar has requested that the Policy be reviewed by the Council and, if approved, an appropriate addition be made to the Manual of Information.

The Committee recommends that the procedure currently in use by the Registrar's Office be endorsed by the Council.

If approved by the Council, the following addition to the Manual of Information is needed:

III. Schedules

6. Registration for Credit in Excess of Graduation Requirements

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The Committee believes it would be appropriate to allow, at the discretion of the instructor, the use of the delayed grade (del) for 390 activities. Of course, the instructor has the option to use the regular letter grades A through U.

Since 390 is frequently spread over a two-semester sequence, it seems appropriate to require the delayed grade to be changed to a letter grade before the conclusion of the next regular semester (summer sessions excluded).

There may be come situations in which work may be scheduled over a three-semester sequence, or unusual circumstances require that it would be desirable to have a delayed grade extended beyond the next semester limit. The time limit may be extended by the appropriate academic dean under a petition process.

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With the computerized reports of a student's academic progress, it is necessary for a more formal procedure to account for course substitutions and waivers. The Registrar's Office has designed an appropriate form and has asked the Academic Council to approve the procedure. Note that the form requires the student's advisor to approve the substitution/waiver. Both the Chairman of the Department granting the degree and the appropriate Dean must also approve.

The Committee recommends that the Council approve the procedure.

Attachment III.C.2

Format for Confidential Report of Conference
Between Department Chair and Faculty Member

As part of the Faculty Activities Report Program, each department chair must annually, in the spring, prior to the May Commencement, discuss individually with faculty his/her assessment of their contributions. It is required that the department chair specifically comment on each of the following: 1. What were the duties this faculty member was expected to fulfill? 2. What has been performed well? 3. What needs improvement? 4. What objectives are agreed upon for the coming year? 5. The department chair will also summarize his/her assessment of the faculty member's progress toward tenure and/or promotion during the past year when applicable. In addition, if not already covered above, the chair will summarize the primary contributions of the faculty member to the department, college, and/or university during the past year.

Department_____College/School_____

Faculty Member_____

Rank:_____Date of Rank:_____Tenured:_____

Date of 1st Faculty Appointment:_____Date of Conference_____

Chair's Comments:

Chair's Signature:_____Date:_____

Faculty Member's Comments:

Faculty Member's Signature:_____Date:_____

It is the responsibility of both faculty member and chair to ensure that the annual conference, as recorded herein, provides the faculty member with sufficient information to set goals for the following year's performance. Copies of this document are for chair and faculty member only, but available to Dean, Vice-Chancellor for Academic Affairs, and Chancellor.

Intercampus Faculty Council Meeting

January 24, 1991

Meeting was held in the second floor conference room, University Hall. Presiding Chair Sue Taylor called the meeting to order at 10:30 a.m. Those attending were: L. Friedman, F. Popp, D. Gustafson, P. Roth, J. McGill, M. Petersen, N. McNeill, M. Burkholder, R. Wallace, S. Taylor, E. Lawless, A. Hahn. The minutes were approved as circulated.

Jim McGill reported that the governor's announced spending level for the University for 1992 would be the same as for 1991. McGill expressed his dismay at the elimination of all funding for the Missouri Research Assistance Act and the Alzheimer's Program.

Taylor asked what the budget process would be for next year. McGill told the group that President Magrath would address the Curators next week in Jefferson City and would, probably, list for them the "unavoidable, mandatory" increased costs of the University, which include benefits (may be up 15%); operating building costs, about 1.6%; inflation on expense and equipment operating costs (estimated to be 4.5% to 5%). In addition, the University must absorb the last 1% withheld by the governor this year. To fund these the university would require an added 4.5% to 5% fee increase over the projected increase, totaling a 10-11% increase. The President will probably recommend no salary increases for 1991-92.

McGill talked about the "Economic Survival Bill" for 1991 and told the group that the bill calls for increased funds for higher education and for elementary and secondary education as well. McGill told Taylor that the financial officers will talk with faculty and staff groups about budget. Then, Magrath would take recommendations to the March Curators meeting. Taylor stressed the importance of getting faculty involved in the budget process and Vice-President Richard Wallace assured her that this would happen.

The group had a lengthy discussion about the prospects of no salary increases and what that would do to morale on the campuses. Wallace stressed that the only way to continue running the university even at the status quo involves raising fees, cutting programs, and/or providing no salary increases. Paul Roth suggested that if the increases might be as

small as 2% this next year that faculty unite in rejecting such a small increase and give those funds back to the University for more programming, sections, etc. for students. Allen Hahn stressed that the message must not be to the voters of Missouri that the University can absorb such devastating cuts without pain. He feared such a plan would simply reinforce the notion that we do not need more funding and that faculty do not need salary increases. Taylor asked the financial officers to bring back more specific budgetary details to the next IFC meeting in February.

Vice-President Mark Burkholder spoke briefly about the Weldon Spring competition and announced that the number of applications from all four campuses had been healthy.

Taylor announced that Beverly Jarrett, Director of the University Press, would be meeting with the IFC group at the February meeting to discuss some concerns that have been expressed about the Press Committee and its role in the process of accepting books for publication. Taylor asked if it might be appropriate for her to share the memo which was written by Don Sievert concerning the IFC involvement in the situation with Jarrett before she came to that meeting. It was agreed that that was appropriate.

Wallace announced that the Long-Range Planning Committee would be meeting in Jefferson City next Wednesday, January 30.

There was some discussion about the Board of Curators meeting which begins next Wednesday at 2:00 p.m. in Jefferson City. There was some discussion of Jim Sterling, Ed Turner's replacement. It was announced that the consultants from the Cook Commission will be serving on the UM Long-Range Planning Committee. Both Burkholder and Wallace stated emphatically that both consultants will be visiting all four campuses and will work with the Faculty Council Chairs and Chancellors to see how they can best be used for the Long-Range goals.

Both Wallace and McGill spoke with enthusiasm about the new Curators. They felt the Curators listened to their concerns during an orientation meeting. Several ideas were presented to get more interaction among faculty, IFC, and the Board.

Intercampus Faculty Council Meeting, February 13, 1991

The meeting was called to order in University Hall by Chairperson Taylor. Present were: A. Hahn, L. Friedman, F. D. Popp, V. Roach, N. McNeill, S. Taylor, R. Wallace, J. McGill, A. Strickland, D. Sievert, C. P. Magrath.

The minutes of the previous meeting were amended to include mention of two discussions at that time: (1) Some believe that the central administration is able regularly to find funds for special situations while campuses are regularly strapped for funds. The proffered explanation, viz., that the funds are from interest on investments, was less than fully detailed or compelling. (2) F. Popp polled faculty at UMKC for opinions about the functioning of the University Press Committee. Three persons responded, all with favorable opinions about the Committee's general functioning but with reservations about two UMSL Press Committee members.

Strickland introduced Beverly Jarrett, Editor, University of Missouri Press. He also provided background regarding the origination of current press guidelines (cf., Executive Guideline No. 26, 5-15-89, in Collected Rules and Regulations, University of Missouri). Before previous Editor King left, graduate deans, external consultants and Jay Barton made various recommendations and changes. E.g., representation from non-Columbia campuses was increased to three faculty from each of those campuses (previously there were two representatives from each of them). The eligibility for service on the Press Committee was determined to be what the guidelines currently state. The Academic Affairs Council is to determine policy for the Press, the Press Committee is to make editorial decisions.

In order to "regularize" duties of the Press Committee, suggestions were received from Jarrett before she arrived to begin her appointment here. She met with the Press Committee and received its suggestions, also before beginning her appointment. She explained that this was a "special" summer meeting for which there are no minutes available. Changes were proposed, which changes were then presented to graduate deans, then presented to and approved by the Academic Affairs Council, then forwarded to Magrath who then added the pertinent sections to the Collected Rules and Regulations.

Editor Jarrett made her presentation. She distributed current and previous catalogs and then summarized the numbers of books published in each of 1989 (27), 1990 (37), and 1991 (48). She expects the Press to publish 50-60 books per year. Whistling Dixie has sold 2,000 copies in six months, some Press books have received rave notices, sales were \$150,000 in Fall 1990, there are 2,000 advance orders for Spring 1991.

Frank and lively discussion of several topics ensued. (1) Strickland emphasized the Press Committee's role in determining what gets published. Questions about how this is possible if the committee sees only pre-approved manuscripts were pressed. (Previously distributed questions about who chooses reviewers and how they are chosen were not addressed.) Jarrett asserted that scholarly decisions are best made by individuals rather than committees and that the Press Committee should not be shown and entrusted with negative reviews. She meant this generally, but used as illustration the case of authors who might be known to Press Committee members. She also asserted that a log of referees consulted as well as minutes of "regular" Press Committee meetings are available; that retyping of referees' comments is done because sometimes those comments are handwritten. With respect to the latter, she rejected the suggestion that xeroxes of originals be presented routinely with retyped versions. Previously distributed questions about decision making in cases of manuscripts which receive mixed reviews were not addressed. (2) The Press received a subsidy of \$417,000 in academic year '89-90. An increased subsidy is not possible given fiscal constraints. Wallace says it is hoped that the Press will become financially self-sufficient. (3) Jarrett distinguished the task of developing new areas from the managerial task of soliciting manuscripts. She has concentrated on the latter without changing the former. Sales records which demonstrate this have been made available to the Press Committee.

Chairperson Taylor summarized the discussion by saying that there seemed to be two different philosophies about the role of the Press Committee involved in our deliberations. One has the Committee involved in more aspects of manuscript review all along. The other introduces the Committee at a later stage and only in cases of manuscripts which have received positive external reviews.

Other discussions were considerably briefer. (1) Summary information about Weldon Spring proposals, e.g., number or proposals and amount of funding sought, was presented. (2) Assessment. Curators are still inclined to seek some University-wide and standardized form of assessing undergraduates. The advisability of accepting assessment because it will benefit the University as well as the advisability of postponing it until better financial times were discussed. What "it" is that assessment is to measure is not entirely clear. (3) Mathewson Bill. If such a bill passes through the legislature, there will be reform of some sort required. The final forms of the bill in the House and Senate and its required reforms are hard to predict now. (4) Next year's budget. Magrath says that IFC will be involved in discussions if there is something to discuss. Various proposals for dealing with increased medical care premiums in a flat budget year were discussed.

Next meeting: Wednesday, March 6, 1991, 10 a.m.

Respectfully submitted,
Don Sievert, Recording Secretary

Intercampus Faculty Meeting, March 6, 1991

Chairperson Taylor called the meeting to order at 10 a.m. Attending were: N. McNeill, F. D. Popp, V. Roach, L. Friedman, M. Burkholder, S. Taylor, A. Hahn, J. McGill, C. P. Magrath, D. Sievert. R. Wallace joined us ethereally at 11 a.m. by means of a conference call.

The minutes of the previous meeting were changed by deletion. The mention of reservations by some UMKC Press Committee members about UMSL Press Committee members in those minutes is to be stricken. Then the minutes were accepted.

Hahn gave a demonstration of a computer program which could be used in assessing students' mastery of particular course material including, if desired, mastery of courses from a core of general education courses. The program has short answer questions, it will grade these answers, it has an essay option, it solicits students' reactions to the examination, etc. Such a program can, of course, be custom-designed to match whatever particular courses a student has taken.

Next we discussed our meeting with Curator Cozad on March 2. The topic receiving the largest amount of attention was assessment. In this context it was pointed out that the campuses do a number of things already in accord with assessment policies adopted in the last several years. Writing across the curriculum requirements, some standardized testing, General Humanities courses, undergraduate major assessment, external review of departments to see how they are faring, and review for accreditation of schools and colleges all involve assessing what we do. Curator Cozad has drafted a resolution to be presented March 14-15 for adoption by the Board of Curators which he hopes will accomplish several things: convey the regard of the curators for the faculty, express the political urgency for a standardized assessment test for each campus, specify the use of the College BASE test if no other test is adopted by a campus. Curator Cozad agrees that faculty work hard and do well. Nonetheless, he ventured the opinion that it might be preferable to have some faculty do more teaching and less research. He also remarked that some cases of duplication may need to be preserved. For example, the UMKC law school generates graduates who enter a different market from the one MU law school graduates enter and hence the two schools serve different clientele.

Mark Burkholder explored the feasibility and wisdom of doing a racial attitudes survey of the University community. Is the current time a good one for doing so? Should we add such a survey to standardized tests currently given to students? Will doing such a survey create problems? It was agreed that faculty representatives will discuss this with their home faculty.

Next we took up discussion of the Mathewson Bill, now in its eighth version. Some of its prominent features were discussed: CBHE will have a stronger role in the state (e.g., it will publish guidelines for faculty workloads, it will approve/disapprove admissions standards generated by campuses). On the matter of workloads, praise and attention was directed to Catherine Parke's letter in the Columbia Daily Tribune on March 3. Magrath praised both the letter itself and the time and concern which went into writing it. There was also discussion about the proportion of reform and increased funding, along with the magnitude of each, in the final form of the bill. While all agreed that the University needs increased funding desperately, some said their support at the polls will depend on the nature and extent of reforms in proportion to the nature and extent of funding increases. It may be more important to preserve campus autonomy than to give it up for slight funding increases.

The conference call with Wallace centered on the matter of assessment and general education requirements. He and others from University Hall, along with several campus representatives, will make presentations on the subject of general education requirements and assessment to the Curators during their next meeting, March 14-15. They will lead a discussion about the four available tests of general education. They will also describe what the four campuses have been doing by way of assessment during the last several years. It is also anticipated that Curator Cozad will introduce his motion, as mentioned above, at that time. IFC agreed that campuses should have the option of electing particular means of assessing students within the framework of mandated testing. Curator Cozad's proposal specifies such campus autonomy.

The Budget for next year will have an increase in fees and, because there will be no raises for the next year, the University will for that one year absorb the increase in cost of medical insurance premiums.

McGill gave short reports about (1) the systemwide database project and (2) cost of living adjustments to current retirement benefits. About the former, the committee is seeking knowledge of how other campus systems deal with the same issues. It is sensitive to the varying kinds of contact between faculty and students, e.g., the difference between lecture contact hours and clinical contact hours. About retirement benefits, the University is looking for ways to peg its own current retirement plan to TIAA/CREF performance. This will imply that some funds may fund a floor of benefits (as does TIAA) and some will fund a more variable benefit (as does CREF).

Next meeting: Thursday, April 4, 10 a.m., University Hall.

Respectfully submitted,

Don Sievert
Recorder

SPECTRUM

News from the Jan. 30-31 Board of Curators meeting, Jefferson City

Webb Gilmore, in his opening address as board president, told curators the University and the board must be unified in 1991. He listed his priorities for 1991 as: system organization, communications and cooperation; faculty appreciation; additional resources; restoration and enhancement of quality; missions and program priorities; programs for minority and disadvantaged students; efforts to strengthen undergraduate curriculum; and interface between higher education and elementary and secondary education.

Less state money and higher operating costs will plague the University in fiscal 1992, President Magrath told the board. Due to Missouri's decreasing revenue situation, the state appropriation to the UM System is likely to be less than this year's. This could result in additional program reductions, higher student fees and no pay raises for faculty and staff, Magrath said.

New curators John C. Cozad, James L. McHugh Cynthia Bramlett Thompson were sworn in as board members. Cozad, 46, of Platte City; McHugh, 59, of Webster Groves; and Thompson, 41, of St. Louis, were appointed by Gov. Ashcroft earlier this month to six-year terms on the board. They succeed Ed Turner, Eva Louise Frazer and Peter Raven, whose terms expired.

Efforts to increase funding for higher education must be tied to reform, said Higher Education Commissioner Charles McClain. McClain said he stands behind the recommendations of the Missouri Business and Education Partnership Commission and he stressed the importance of each curator taking a role in persuading the public that the status quo is not good enough for the University of Missouri System. Sen. James Mathewson urged the board to work with the General Assembly to let the issue of a tax increase for education be decided by the voters of Missouri.

The Student Fee Task Force recommended fees be raised. In an interim report, the task force said the University System fee structure, combined with the present level of state support, is not adequate for the University to fulfill its mission. The task force recommended the University adopt a policy of moderate tuition rather than the low-tuition policy of the last several decades.

The board endorsed a proposed three-campus cooperative nursing doctorate, but delayed action until a better fiscal situation allows expansion of University programs. Magrath said he asked the Coordinating Board for Higher Education to start assessing the program in the interim.

Gilmore named board committees for 1991. The Academic Affairs Committee will be chaired by John Lichtenegger, the Resources and Planning Committee by James C. Sterling, the Finance Committee by G. Andy Runge and the Physical Facilities Committee by Fred S. Kummer.

The board was informed that Gail L. Imig, director of University Extension since 1988, has announced her resignation. Imig has been named director of cooperative extension at Michigan State University-East Lansing. The appointment is effective July 1. President Magrath said, "I feel a great sense of loss for the University and for the state with the departure of Dr. Imig."

Next meeting: March 14-15, UM-St. Louis

SPECTRUM

News from the March 14-15 Board of Curators meeting, UM-St. Louis

Much of the board meeting was devoted to financial issues, but UM System President C. Peter Magrath told the board that despite financial difficulties, the University must keep a sharp focus on its basic educational mission. "Our attention to immediate financial problems cannot be allowed to reduce the energy and priority we place on teaching and learning and the quality of the collegiate experience of our students," he said.

The University's operating budget for this year was spared from recent cuts by Gov. Ashcroft, Magrath reported, while an additional 2 percent of general operating money was withheld from most other state agencies. However, the governor cut funds for a repair project at UM-St. Louis, funds for the research park at UM-Kansas City and \$447,227 in promised funding for Missouri Research Assistance Act projects.

Action by the board means educational fees will increase 12 percent next year, instead of 5.8 percent approved last year, to help cover a \$14 million increase in operating costs. The larger fee increase was necessary, Magrath said, in light of the state's plans to appropriate less to the University than this year.

The increased fees will cover unavoidable cost increases next year. The income generated will not allow increases in faculty and staff salaries next year, Magrath told curators. "As I stated in January, there will be no general faculty and staff salary increases in the coming year," Magrath said. "This will place a hardship on our employees, and I regret that this action will be required." The board will approve the 1991-92 budget at its meeting in June.

Magrath updated the board on Sen. James Mathewson's bill to increase funding for education. The bill was passed Thursday by the Senate in a 24-10 vote and will be heard by a House committee after the General Assembly's spring recess. If lawmakers approve the measure, which passed the Senate with few amendments, the package will go to voters in November.

Reports on general education throughout the UM System were presented to the board by President Magrath, Vice President Richard Wallace and campus representatives. Magrath reiterated the University's first priority is to strengthen general education by improving the undergraduate curriculum. Each campus detailed current general education requirements.

The board passed a resolution that in May it will select a general education assessment plan to be implemented by the UM System. The decision will be based on recommendations from faculty and administrators. The board passed the resolution after hearing a report on available assessment methods and those in use at each campus. Faculty representatives called on the board to allow each campus to select the assessment method best for that campus.

Next Meeting: May 2-3, Rolla



VOL. XX, NO. 6
April 11, 1991

XX,6 The April 11, 1991, special meeting of the Academic Council was called to order by President Roach at 1:35 p.m. The following substitutions were noted: Prof. Leon Hall for Prof. Selden Trimble (Mathematics), Prof. Catherine Riordan for Prof. Richard Hall (Psychology), Prof. Dan Babcock for Prof. Henry Wiebe (Engineering Management), Ms. Sarah Preston for Mr. Travis Boulware (Physical Education and Recreation), and Prof. William Tranter for Prof. Max Anderson (Electrical Engineering).

XX,6 **PRESIDENT'S COMMENTS.** President Roach made a few brief remarks about
I. the fiscal state of the university; the effect, especially during the last decade, of eroding support on aspects of our programs, not just on salaries; and the decline that we are heading for if assistance is not forthcoming.

XX,6 **CONSIDERATION OF UMKC RESOLUTION ON MANDATORY ASSESSMENT INSTRUMENT.**
II. Professor Askeland presented the UMKC Resolution on Assessment, and then moved approval of a memorandum addressed to President Magrath entitled "Academic Assessment Instruments and Policies." The motion was seconded and then approved without dissent (copy attached).

XX,6 **CONCERNS REGARDING UNIVERSITY SYSTEM AND UMR ADMINISTRATIVE OPERATING**
III. **PROCEDURE.**

Professor Edwards moved the adoption of Resolution 1 regarding proper communication (copy attached). The motion was seconded. Professor Askeland then moved a substitute motion in the form of a memorandum to President Magrath entitled "Effective Communication in the University." The motion was seconded. The substitute motion was amended without dissent by adding the following statement to the last sentence of paragraph three: ", e.g. the use of modern technologies such as electronic mail." The substitute motion as amended was then approved without dissent (copy attached).

Professor Edwards moved the adoption of Resolution II concerning the appointment of the Interim Athletic Director (copy attached). The motion was seconded. Professor Askeland then moved a substitute motion in the form of a memorandum addressed to Chancellor Jischke entitled "Interim Athletic Director." The motion was seconded. After discussion, the substitute motion was approved without dissent (copy attached).

As a consequence of discussion regarding the appointment of the Interim Athletic Director, Professor Herrick expressed the wish that the administration would issue a very clear policy on extra compensation. President Roach responded that he would follow through with the administration on this request.

CONSTITUTION

****Change Per Academic Council**

I. NAME AND AFFILIATION

The name of the choir shall be the

- A. **Voices of Inspiration at the University of MO-Rolla**
May hereafter be referred to as the choir.
- B. The Voices of Inspiration will not be affiliated with any other group.

II. AIMS AND OBJECTIVES

The objectives of the Voices of Inspiration shall be to

- A. Spread God's Light through song
- B. Draw people to the Lord
- C. Provide worship services (average twice monthly)
- *D. Will sponsor two major concerts per year
- E. Provide opportunities for student fellowship (ie AGAPE' services) as needed.

III. MEMBERSHIP

A. Qualifications for Membership

- 1. Regular members must have and maintain a 2.0 GPA.
- **2. New members must display an interest in the aims and objectives of the choir.
- 3. There are no initiation requirements.

B. Classes of Membership

- 1. Regular membership is restricted to UMR students.
- 2. Associate membership may be extended to UMR staff and non-UMR students.

C. Members may be dropped for

- 1. Disorderly conduct on field trips and at performances.
- 2. Grade point averages falling below 2.0 resulting in probation.
- 3. Dropping members will be a group decision.
- 4. Due process must be afforded all members being dropped.

April 2, 1991

Recent events on the University of Missouri-Rolla campus, within the University of Missouri system and within the state government have caused concern among the faculty. The specific events include:

- The announcement of a freeze of all salaries within the university.
- The announcement of a twelve per cent increase in student fees to maintain the status quo.
- The interim appointment of a non-academic administrator to a position of direct line authority over academic personnel and with an increment added to his salary.
- The announcement via the press of the Chancellor accepting a position at another university.

RESOLUTION I

Whereas the faculty believes that proper communication is essential to the operation of the campus,

Whereas the faculty has not been officially notified of the resignation of the Chancellor,

Be it hereby resolved that the Academic Council of the University of Missouri-Rolla:

1. Expresses its displeasure in the manner in which the members of the faculty were informed of the resignation of the Chancellor.

RESOLUTION II

Whereas the faculty is supportive of the long tradition of student athletes at UMR,

Whereas the faculty should be governed only by academic personnel,

Be it hereby resolved that the Academic Council of the University of Missouri-Rolla:

1. Requests the immediate review by the President of the appointment of the Interim Athletic Director.

RESOLUTION III

Whereas the faculty is committed to providing the best possible education for the students,

Whereas the financial conditions of the state apparently require the freeze of salaries within the university,

Whereas the faculty believes that expenditures for activities such as assessment, the management systems area study, the VSAT program and associated renovations, the University Integrated Data Base and the opening of new facilities during severe budgetary retrenchment compromise the existing educational programs,

Be it hereby resolved that the Academic Council of the University of Missouri-Rolla:

1. Recommends that before any fee increase or salary freeze is instituted expenditures for activities such as assessment, the management systems area study, the VSAT program and associated renovations, the University Integrated Data Base and the opening of new facilities be suspended;
2. Requests that the Interim Chancellor assume administrative responsibilities immediately or that all interim appointments (excluding the Interim Chancellor), all permanent appointments (excluding new faculty), and all long range decisions be delayed until the Interim or Permanent Chancellor is in charge.

Copies of these resolutions are to be sent to all members of the faculty and to President McGrath.



UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: April 11, 1991 Meeting

Reviewed EC1's:

EC1 329, Chemistry 201, Science Teaching with In-Classroom Computers. Approved for Summer 1991. 2 hours credit. Prerequisites: Public School Science Teachers.

EC1 330, Mechanical Engineering 401, Advanced Topics in Convective Heat Transfer. Approved for Fall 1991. 3 hours credit. Prerequisites: ME 427 or AE 427.

EC1 331, Civil Engineering 301, Hazardous Materials in Soil and Water. Approved for Fall 1991. 3 hours credit. Prerequisites: CE 261.

EC1 332, Arts & Sciences 101, Master Student. Approved for Fall 1991. 1 credit hour. Prerequisites: Limited to Arts & Sciences undecided students.

EC1 333, Arts & Sciences 101, Introduction to Arts and Sciences. Approved for Fall 1991. 1 credit hour. Prerequisites: Limited to Arts & Sciences undecided students.

EC1 334, Computer Science 301, Object Oriented Programming. Approved for Fall 1991. 3 hours credit. Prerequisites: CSc 253.

EC1 335, Computer Science 401, Object-Oriented Database Systems. Approved for Fall 1991. 3 hours credit. Prerequisites: A course in Object-Oriented Database Systems and CSci 304.

Reviewed CC1's:

CC1 3365, Geological & Petroleum Engineering 415, Advanced Geostatistics. Approved for Fall 1991. Change of prerequisites from GE 315 to GE 315 or any statistical course 200 level or


higher.

CC1 3366, Engineering Management 209, Engineering Economy and Management. Approved new course for Fall 1991. No prerequisites. 3 hours credit. Description reads: Engineering economy topics include equivalence; present worth, annual and rate of return analysis; depreciation and taxes. Engineering Management topics include planning, organizing, motivation, controlling and their applications in design and manufacturing. Not for Engineering Management majors.

CC1 3390, Geological Engineering 275, Geomorphology and Terrain Analysis. Approved for Winter 1992. Change of credit hours from 3 hours lecture to 2 hours lecture and 1 hour lab. Change of prerequisites from GeE 50, Geol 220 to GeE 50. Change of description which reads: Study of geomorphic processes, landform development and surficial material. Course content stresses the evaluation of engineering properties of terrain factors for site selection and design of engineered structures.

CC1 3391, Ceramic Engineering 000. Approved curriculum change for Fall 1991. Justification reads: Expansion of required communication skill options.

CC1 3392, History/Political Science 209ML, A Medieval Window: The Gothic Cathedral. Approved new course for Fall 1991. 2 hours lecture. No prerequisites: Description reads: A study of British cathedrals and abbeys as symbols of the Medieval Era in Europe. This course will focus on various components of the cathedral such as stained glass and architectural elements.



Dr. Joseph Newkirk, Chair



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

202 Norwood Hall
Rolla, MO 65401-0249
Telephone (314) 341-4972

Vol. XX, No. 7
April 25, 1991

XX,7 The April 25, 1991, meeting of the Academic Council was called to order by President Roach at 1:32 p.m. The following substitutions were noted: Prof. Jerry Bayless for Dean Robert Davis (Engineering) and Prof. Larry Christensen for Prof. Lance Williams (History).

XX,7 The minutes of the March 28 and April 11 meetings of the Council were
I. approved as distributed.

XX,7 **PRESIDENT'S COMMENTS:** President Roach reported briefly on five items:
II.A

1. President Roach read a letter from President Magrath in response to three actions of the Council at the special meeting in April concerning (1) Academic Assessment; (2) Effective Communication; and (3) the University Budget. The President expressed his appreciation for the Council's views on these subjects and his understanding of our concerns. His letter is available in the Council office.
2. President Roach passed along a request for faculty to support the tax initiative now in legislative conference committee by calling our senators and representatives and urging their support.
3. President Roach urged faculty to report to Vice President Wallace their thoughts and concerns regarding the process for distribution of Weldon Spring funds. Vice President Wallace would appreciate replies as soon as possible since review of this year's process will begin very soon.
4. President Roach deferred his discussion of the University Task Force on Planning inasmuch as Chancellor Jischke will report on the task force in his remarks. However, President Roach commented that he differs with the order of priorities established by the task force in that "Restoring the Base" of current activities is no longer the long-standing first priority of our budget planning.
5. President Roach noted that this meeting of the Academic Council is Chancellor Jischke's last as Chancellor of UMR. President Roach then expressed to Chancellor Jischke the appreciation of the entire university community for his five years of dedicated service to UMR, its faculty, students, and alumni, and to the community and other constituencies.

XX.7 **CHANCELLOR'S REPORT:** Chancellor Jischke reported on three items: (1) the
II.C tax initiative, (2) the appointment of the Interim Athletic Director, and (3), the University Task Force on Planning:

1. The Chancellor reviewed the status of the tax initiative, noting that progress on the initiative in the legislature is very encouraging and that the work of the last several years may soon result in substantial new support for higher education in Missouri.
2. In reply to concerns expressed by the faculty at the April special meeting of the Council regarding the appointment of Mr. Neil Smith as Interim Athletic Director, the Chancellor gave a detailed report on the process he used, the persons consulted regarding the appointment, Mr. Smith's qualifications for the position, specific charges given to Mr. Smith as Interim Director, and the conditions of his appointment. The Chancellor noted that academic portions of the athletic program will continue to report to the Dean of the College of Arts and Sciences. Further, personnel decisions will follow all relevant rules and procedures and will follow the Collected Rules and Regulations of the University of Missouri. Specifically, Mr. Smith has been asked "to initiate the process of rebuilding the football program and to explore the various options facing UMR for conference affiliation." The Chancellor also stated that serving as Interim Athletic Director is clearly an overload for Mr. Smith for which he will receive \$1,000 per month additional compensation, which is "less than the twenty percent overload allowed faculty. . . ." A copy of Chancellor Jischke's remarks, in the form of a letter to President Roach, is on file in the Council office.
3. The Chancellor gave a detailed summary of the work of the University Task Force on Planning. A new term is now in use, one which we will undoubtedly hear more of: "Quality by Substitution," that is, quality in the university will in part be achieved not by reallocation but by "substituting" (moving) funds from a low priority activity to a high priority activity to satisfy not only campus and university mission priorities but also state-wide priorities. There will be no reallocations between campuses. Finally, the Chancellor stated that funding is critical, and has three sources: additional taxes, increased student fees, and quality by substitution.

XX.7 REPORTS OF STANDING AND SPECIAL COMMITTEES:

III.A Admissions and Academic Standards: Professor Herrick moved the following: that the only person able officially to excuse a student from a class is the professor in charge . The motion was seconded and then approved.

Professor Herrick then moved the following: The Admissions and Academic Standards Committee recommends against the adoption of an early grade procedure for graduating seniors so that a student's degree audit could be completed before the commencement ceremony. This procedure would be an alternative to the minimum grade requirement for graduating seniors. The motion was seconded and then approved.

Professor Herrick next moved the following: That the regulation regarding final examinations approved by the Academic Council on November 29, 1979, but vetoed by the General Faculty on January 22, 1980, be adopted, with specific instructions to have the regulation inserted in the Manual of Information. He also moved three additions to the original recommendation. A motion to table the motion failed. A motion to change "final examinations" to "final examination activities" failed. After one essentially non-substantive amendment and one editorial change, the motion, as follows, was approved:

Final examinations shall be given for all lecture and laboratory courses during final examination week as scheduled. Exceptions must be approved by the department chairperson in writing. Exceptions may be in the form of standing departmental policy, in writing, approved by the departmental faculty and signed by the chairperson. Any exception must be reported to the appropriate dean. Examinations of a course-comprehensive nature can only be given during final examination week. Special final examinations or a change in the scheduled time of an examination requires the written permission of the appropriate dean.

The above motion is effective for the Fall 1991 semester.

XX.7
III.B

Campus Safety Committee: Prof. Ken Robertson moved to suspend the rules (1) to delete from the agenda consideration by the Campus Safety Committee of the "Hazardous Chemicals/Waste Materials Policy Draft," which is now in fact a published policy (PM Number III-54, dated April 15, 1991), and (2) to refer the Policy to the Personnel Committee for consideration of the ramifications of the Policy upon chairs, heads of divisions, faculty, and others. Further, given the urgency of the need to review the impact of the policy on the campus, Prof. Robertson requested that the Personnel Committee proceed expeditiously in its review. The motion was seconded and then approved.

XX.7
III.C

Curricula Committee: Curricula Committee Report No. 6, 1990-91, was approved.

It was moved, seconded, and approved to extend the meeting for an additional 15 minutes, until 3:45 p.m.

XX.7
III.D

Personnel Committee: Prof. Lance Haynes moved that the proposed revised "Format for Confidential Report of Conference Between Department Chair and Faculty Member" be removed from the table. The motion was seconded and then approved.

Professor Haynes then moved approval of the revised format with the request that the changes be incorporated as soon as possible. The motion was seconded and then approved.

Copies of the revised format with changes underlined were distributed to all Council members. Regarding the revised format, Prof. Haynes stated at the March 28 meeting of the Council that "the Personnel Committee intended no substantive change in the report, but wished to

make the revised form more specific, but nothing more than was 'assumed' in the current format."

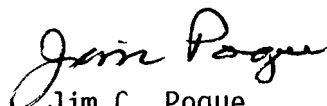
XX.7
III.F Committee on Effective Teaching: Prof. Dale Elifrits noted that faculty evaluations by students is in process. He also reported progress on both Peer and Self evaluation procedures. Vice Chancellor Park observed that both the process and forms being developed for these evaluations are voluntary with the faculty.

XX.7
III.H Intercampus Faculty Council: President Roach announced that, given the lateness of the hour, he would circulate with the minutes his report from the Intercampus Faculty Council.

XX.7
IV NEW BUSINESS: Prof. Gerald Cohen distributed to the Council his memorandum entitled "Concerns about the Arts and Sciences Management-System Program," and then gave a few summary comments from that memorandum regarding the costs of the program and the impact of those costs upon Arts and Sciences. Upon his request, the following motion was moved: "The Academic Council notes that questions have arisen in the College of Arts and Sciences about the proposed Arts and Sciences management-systems program. The Interim Chancellor designate is invited to answer questions about that program at the next Academic Council meeting. The motion was seconded and then approved.

The meeting was adjourned at 3:42 p.m.

Respectfully submitted,


Jim C. Pogue
Secretary



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

Admissions and Academic Standards Committee

Roger Brown
Jeffrey Cawlfeld
Harry Eisenman
Thomas Herrick, Chairman
David Oglesby
Jerry Westphal

The following are the recommendations of the Committee on agenda items 1, 2, and 7.

1) Excused Absence Procedure

It is impossible to categorically list all the possible reasons that a student could be officially excused from class. Human judgement is needed to weigh the nature of the request and its affect on the student's responsibilities to the class. The only person able to make this assessment is the professor in charge of the class. The student can seek the support of his advisor, his chairman, the Office of Student Affairs, and anyone else, in documenting the reasonableness of the request, but the final decision rests with the professor in charge of the course.

2) Early Grade

In the past the campus has required a minimum grade for graduating seniors. The minimum grade is needed in order to perform a degree audit to determine if a student can be given a diploma at commencement. This procedure caused an untenable strain on the Registrar's Office and the faculty, and resulted in a peculiar commencement ceremony where approximately half the graduates did not receive their diplomas at the ceremony. In the fall of 1990, the Academic Council recommended to the Chancellor that the procedure of awarding diplomas at commencement be suspended for the F/90 and W/91 semesters as a trial. This procedure eliminates the need for a minimum grade. The Chancellor approved these recommendations.

As an alternative to the minimum grade, it has been proposed that an early grade be required for graduating seniors so that final grades can be submitted to the Registrar's Office in sufficient time to allow the degree audit to be completed before the commencement ceremony.

However, to disrupt the normal flow of events in a course in order to provide special examinations and assessments so that graduating seniors could receive an early grade (let us say, 2 weeks before commencement) is not reasonable when the only benefit is to provide the graduating student a diploma at the commencement ceremony. We do not recommend the adoption of an early grade.

7) Final examination Policy

The academic regulation listed in the 1990/1991 Manual of Information on Page 35 concerning final examinations is as follows:

VII.,5. Examinations of two hours duration at the end of a semester may be given at the option of the instructor in all lecture and laboratory courses. No special final examinations shall be given except on written permission from the dean of the school/college in which the final is given.

(The next paragraph relates to conflicts and procedures to be followed when more than two final examinations are scheduled on the same day. This regulation is not under consideration.)

However, the regulation stated in VII. 5., allowing an option at the discretion of the instructor, is not the most recent resolution of the Academic Council on final examination policy.

Some History...

1) Prior to 1970, final examinations were mandatory in lecture and recitation courses, but optional in each department in laboratory courses.

2) On May 12, 1970, at a General Faculty meeting, the following resolutions were presented. The action taken is shown to the right of the resolution.

- | | |
|---|--------|
| a) Final examinations given at the option of the instructor. | PASSED |
| b) Prohibiting regular 1-hour exams during the last week of classes. | FAILED |
| c) Procedure to prevent students from having to take more than two finals in one day. | PASSED |
| d) Procedure to prevent a student from taking more than 3 finals in 2 consecutive days. | FAILED |

The appropriate academic regulations to implement items a) and c) appear in the 1970/71 Manual of Information and in each issue since then in Section VII. 5.

However, at the November 29, 1979, meeting of the Academic Council, the following resolution was considered:

Final examinations shall be given for all lecture and laboratory courses during final examination week as scheduled. Exceptions must be approved by the department chairperson in writing. Exceptions may be in the form of standing departmental policy, in writing, approved by the departmental faculty and signed by the department chairperson.

The resolution PASSED and is recorded in the Council Book. But for some reason the new regulation, which requires final examinations, did not supersede the old regulation in the Manual of Information which allows the option.

The Committee believes that the final week of the semester must be utilized in appropriate academic activities if we are to continue to claim a 16-week semester. The week may be used for some form of academic activity other than a typical 2-hour comprehensive final exam. For example: a) A project type course in which the student works individually may require that work be assessed during finals week to determine the quality and integrity of the work. b) Some design type courses are best treated with a take-home examination. c) Some laboratory courses need to use the equipment of the laboratory to give a final assessment. These assessment must be spread over more than a 2-hour period. Of course, there are other worthy examples but all may be considered under the approved exceptions provision of the regulations.

A frequent student complaint is that comprehensive examinations are being given in the last week of classes rather than in the time reserved for the course in final examination week. This is a very unfair practice and violates the current regulation in the Manual of Information which prohibits moving the time of a final examination without the permission of the appropriate dean.

Recommendations

The Committee believes the regulation approved on November 29, 1979, is still relevant and recommends that the Council reaffirm it, with specific instructions to have the regulation inserted in the Manual of Information.

The Committee further recommends the following additions to the regulation: 1) Any exception must be reported to the appropriate dean. 2) Special final examinations or a change in the scheduled time of an examination requires the written permission of the appropriate dean. 3) Examinations of a comprehensive nature can only be given during final examination week.

The changes in VII., 5. are to be effective for the Fall 1991 semester.

Intercampus Faculty Council Meeting, April 4, 1991

Members present included Professors: Friedman, Popp, Roach, Roth, Hahn, Taylor, and Hunvald substituting for Sievert. The meeting commenced at 9:15 am.

Assessment issues. There was unanimous agreement that each campus should supply its own methodology instrument and timing for the mandated assessment. Professor Roth handed out a copy of the report from the UMSL Ad Hoc Committee on Assessment. After some discussion it was decided to formulate a statement about campus individuality based upon that report. The group agreed that the following statement would reflect the four campus individualities.

" Since we have been mandated to assess, each campus should individually determine the instrument best suited to assess its particular general education, and each campus should individually determine the best time to perform such an assessment based upon the particular circumstances of that campus. "

A brief discussion of Dr. Strickland's memo regarding the April 1 conference call followed.

Other Business. The minutes and timing of their publication in various campus publications was discussed. It was agreed that all IFC members would have an opportunity to review the minutes and have five days to respond in regards to changes. In the event of no response, the minutes will stand approved and may be published in different campus vehicles.

President Magrath, Vice President Wallace, and McGill then joined us at 10:15 a.m. Vice President McGill briefly discussed the budgeting process and pointed out that there will be 12% fee increase. Professor Roach noted that the UMR faculty wants to discuss the reallocation of funds into faculty salaries and had already discussed it at their meetings.

Dr. McGill noted that approximately \$15 million dollars into the University budget could bring faculty salaries to the level of an aspirant group, i.e. Big Ten. It would take approximately \$30 million dollars to bring the level of staff salaries to local market values. All of these are 1991 dollars.

Professor Hunvald wanted communication to the administration that the main question from the faculty is... "what will be the portion of salary increments proposed for next year?"

President Magrath requested an update on the faculty position on assessment and noted he will be presenting that position to the Board of Curators at their next meeting. Dr. Magrath also briefly discussed the tax initiative but pointed out that the legislative side of that is still very fluid. The matter of University Hall lobbying cost was brought up as well as other costs incurred at University Hall. President Magrath was quick to note that the books are open and any group is welcome to audit the books at any time.

The next IFC meeting was set for May 9, 1991 and will probably be held in Columbia. Being no further business the meeting adjourned after lunch at 1:45 p.m.

Respectfully submitted,

Allen W. Hahn, Recorder For a Day



UNIVERSITY OF MISSOURI-ROLLA
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Foreign Languages

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June 27, 1991

MEMO TO: Larry George
Affirmative-Action Officer

FROM: Jerry Cohen
Professor of Russian and German

SUBJECT: Apparent Violation of Affirmative-Action Guidelines

I am writing to request your ruling on the validity of an appointment which seems to be in violation of Affirmative-Action guidelines. A few months ago Catherine Riordan was appointed by the Chancellor to be director of a proposed Management-Systems Program, but the appointment was apparently not preceded by a proper search. There was no search committee, no review of applications, no chance for other candidates to apply, indeed apparently no application from Professor Riordan herself. As far as I can tell, she was simply appointed.

Please note: this is not an interim position; it is a new position. And it was apparently filled without the Chancellor even consulting with the chairmen of the departments participating in the program.¹

If the Riordan appointment is permitted to stand, it will raise the following questions:

1) Is there perhaps a de-facto two-tier policy at UMR for enforcing Affirmative-Action guidelines--one for the lower administration, from which strict compliance is expected, and one for the upper administration, where compliance is apparently voluntary?

1

The developments in late 1989 or very early 1990 hardly constitute a proper search justifying the appointment of Professor Riordan. At that time Dean Marvin Barker placed an ad in the Chronicle (and apparently only there), which elicited a few applications, all very weak. The chairmen of the participating departments (Economics, Psychology, Computer Science) rejected them. Afterwards, these chairmen heard nothing more on the matter until some 12-18 months later, when Dean Haddock stopped by their offices and notified them of a fait accompli: the Chancellor had appointed Professor Riordan.

2) If in fact a two-tier policy is taking shape here, how will it affect Affirmative Action at UMR? The strength of Affirmative Action rests largely on public awareness of the injustices done to women and minorities and the need to right those wrongs; is Affirmative Action not weakened if its leaders, of all people, do not adhere to its rules?

JC:ch

cc: Interim-Chancellor John Park
Vice-Chancellor Glen Haddock
John Fulton, Dean, Arts and Sciences
Arlan DeKock, Chairman, Computer Science
Ronald Kellogg, Chairman, Psychology
Walter Johnson, Chairman, Economics
John Watson, Chairman, Committee of Department Chairs

MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: June 5, 1991, Meeting

Reviewed EC1's:

EC1 336, Geophysics 301, Engineering Geophysics. Approved for Fall 1991. 3 hours credit. No prerequisites.

EC1 337, Ceramic Engineering 401, Electroceramic Composites. Approved for Fall 1991. 3 hours credit. Prerequisite: Cer Eng 286.

EC1 338, Civil Engineering 401, Advanced Construction Materials. Approved for Winter 1992. 3 hours credit. Prerequisites: CE 312 and Ce 313.

EC1 339, Civil Engineering 301, Building Design for Dynamic Loads. Approved for Fall 1991. 3 hours credit. Prerequisites: Math 204; CE 223 or CE 221 with a grade of "C" or better.

EC1 340, Mathematics 401, Topics in Fixed Point Theory. Approved for Summer 1991. 3 hours credit. Prerequisite: Math 309.

EC1 341, Political Science 201, Public Policy Analysis. Approved for Fall 1991. 3 hours credit. Prerequisites: Pol.Sci. 90.

EC1 342, English 201ML. Visions of the Modern City. Approved for Fall 1991. 3 hours credit. No prerequisites.

EC1 343, Music 101, Introduction to Electronic Music. Approved for Fall 1991. 3 hours credit. No prerequisites.

EC1 344, History 201ML. British History From Roman Times. Approved for Fall 1991. 3 hours credit. No prerequisites.

Reviewed CC1's:

CC1 3382, Physics 309, Physical Mechanics II. Removed from tabled. Approved deletion for Fall 1991.

CC1 3383, Physics 209, Physical Mechanics I. Removed from tabled. Approved for Fall 1991. Change in course title from Physical Mechanics I. Change in prerequisites from Math 204, 322, Phys. 24

or 25 to Math 204, Phys. 24 or 25. Change in description to: Motion of particles in one, two, and three dimensions, motion in central field, conservation laws, motion of rigid bodies, Lagrange's equations.

CC1 3393, Geology 114, Chemical Mineralogy. Approved for Fall 1991. The credit hours listed in the undergraduate catalog are incorrect as 1 hour lecture and 2 hours lab. The credit hours should be listed as 2 hours lecture and 1 hour lab.

CC1 3394, Mining Engineering 391, Mine Design Project I. Approved for Fall 1991. Deletion of course.

CC1 3395, Mining Engineering 392, Mine Design Project II. Approved for Fall 1991. Deletion of course.

CC1 3396, Geophysics 286, Introduction to Geophysical Data Analysis. Approved new course for Fall 1991. 3 hours credit. Prerequisites: CSc 73 and 77, Phys 25 and preceded or accompanied by Math 204. Description reads: The principles of time series and space series data analysis, digitization and aliasing, frequency-wave number spectra, digital filtering, linear system theory, complex number spaces, vector spaces and matrix methods.

CC1 3397, Geology 286, Introduction to Geophysical Data Analysis. Approved for Fall 1991. Deletion of course.

CC1 3398, Mining Engineering 393, Mine Planning and Design. Approved new course for Fall 1991. 2 hours lecture and 1 hour lab. Prerequisites: Completion of 120 credits in Mining Engineering curriculum. Description reads: Selection of a mining design project that results in the preparation of an engineering report and oral presentation for the economic exploitation of the selected geologic deposit. The course includes instruction and student guidance that integrates and applies engineering economics, sciences, and principles to the exploitation of a mineable geologic deposit.

CC1 3399, Mining Engineering. Approved for Fall 1991. Change in curriculum. The addition of Mining 393 course (Mine Design - 3 credit hours) and deletion of Mining 391 and 392.

CC1 3400, English. Approved for Fall 1991. Change in curriculum. To correct an error in the original CC1 form. The meaning of the word language is too broad and therefore the word is ambiguous. The word linguistics specifically denotes the courses covered by this requirement (305, 306).

CC1 3401, Mathematics 385, Introduction to Topology. Approved for Fall 1991. Change in catalog description to: Metric spaces; general topological spaces; connectedness, compactness, separation properties, functions and continuity.

CC1 3402, Mathematics 351, Introduction to Complex Variables. Approved for Fall 1991. Change in catalog description to: The basic tools of complex variables are studied. These include the Cauchy-Riemann equations, complex contour integration, the Cauchy-Goursat Theorem, conformal mapping, the calculus of residues and applications to boundary value problems.

CC1 3403, Mathematics 315, Introduction to Real Analysis. Approved for Fall 1991. Change in catalog description to: Riemann-Stieltjes integration, sequences and series of functions, uniform approximation, the Banach space $C(a,b)$ Lebesgue measure and integration, the space $L(a,b)$ Fourier series.

CC1 3404, Mathematics 307, Combinatorics and Graph Theory. Approved for Fall 1991. Change in course title from Combinatorics. Change in prerequisites from A 200 level Math course to CSC 258 or Math 209. Change in catalog description to: Covers some basics of enumeration and graph theory. Topics are selected from the following: permutations combinations, the inclusion/exclusion principle, generating functions, recurrence relations, trees, networks, graph connectivity and graph coloring.

CC1 3405, Mathematics 306, Modern Algebra II. Approved for Fall 1991. Change in prerequisites from: Must be preceded by Math 305 to Math 305. Change in catalog description to: This course is a continuation of Math 305. Rings and fields are discussed. Euclidean domains, principal ideal domains, unique factorization domains, vector spaces, finite fields and field extensions are studied.

CC1 3406, Mathematics 305, Modern Algebra I. Approved for Fall 1991. Change in prerequisites from Math 22 to Math 209. Change in catalog description to: The abstract concepts of a group and a ring are introduced. Permutation groups, subgroups, homomorphisms, ideals, ring homomorphisms and polynomial rings are studied.

CC1 3407, Mathematics 303, Mathematical Modeling. Approved for Fall 1991. Change in catalog description to: Model construction and the modeling process, model fitting, models requiring optimization, empirical model construction, modeling dynamic behavior. Individual and team projects.

CC1 3408, Mathematics 229, Elementary Differential Equations and Matrix Algebra. Approved for Fall 1991. Change in catalog description: This course is a combination of selected topics from Math, 203 and 204. Solutions of linear differential equations and systems of linear algebraic equations are emphasized. Credit will not be given for both 204 and 229.

CC1 3409, Mathematics 209, Foundations of Mathematics. Approved for Fall 1991. Change in prerequisites from Math 22 to Math 22 or 21. Change in catalog description to: An introduction to mathematical reasoning through an axiomatic development of mathematical systems. A strong emphasis is placed on getting the student to understand what constitutes a sound mathematical argument.

CC1 3410, Mathematics 208, Linear Algebra I. Approved for Fall 1991. Change in catalog description to: Systems of linear equations, matrices, vector spaces, inner products, linear transformations, determinants, and eigenvalues are studied.

CC1 3411, Mathematics 204, Elementary Differential Equations. Approved for Fall 1991. Change in catalog description to: First order differential equations and linear differential equations of higher order are studied. The Laplace transform power series techniques as well as selected physical applications are covered. Credit will not be given for both Math 229 and 204.

CC1 3412, Mathematics 203, Matrix Algebra. Approved for Fall 1991. Change in catalog description to: Matrix algebra is introduced by means of systems of linear algebraic equations. Gaussian elimination, least squares solutions, orthogonalization, determinants, eigenvalues and an introduction to vector spaces are discussed. Credit will not be given for both Math 203 and 208.

CC1 3413, Mathematics 022, Calculus with Analytic Geometry III. Approved for Fall 1991. Change in catalog description to: the calculus of vector-valued functions is introduced. Partial differentiation and multiple integration are studied along with curves and surfaces in three dimensions. Additional topics selected from: line integrals, surface integrals, Green's theorem, Stokes' theorem and the divergence theorem.

CC1 3414, Mathematics 021, Calculus With Analytic Geometry II. Approved for Fall 1991. Change of catalog description to: A continuation of the study of differentiation of algebraic and trigonometric functions. The course also includes differentiation and integration of other transcendental functions, techniques of integration, improper integrals, conic sections, polar coordinates and an introduction to sequences and series.

CC1 3415, Mathematics 008, Calculus with Analytic Geometry I. Approved for Fall 1991. Change of catalog description to: A study of limits, continuity, differentiation and integration of algebraic and trigonometric functions. Applications of these concepts in physical as well as mathematical settings are considered.

CC1 3416, Mathematics 006, Trigonometry. Approved for Fall 1991. Change of catalog description to: A study of the trigonometric functions, radian measure, graphing trigonometric functions, identities, trigonometric equations and inverse trigonometric functions. Solutions of general triangles and trigonometric representation of complex numbers are included.

CC1 3417, Mathematics 004, College Algebra. Approved for Fall 1991. Change of catalog description to: A study of linear equations, rational functions, radicals, quadratic equations, inequalities, determinants, progressions, theory of equations, permutations, combinations, and the binomial theorem.

CC1 3418, Computer Science. Approved change in curriculum for Fall 1992. GPA Requirements:

1. All computer science majors must earn "C" or better grade in each of the following courses: CS 53, CS 153, CS 158, and CS 253.

2. All computer science majors must earn a minimum cumulative grade point average of 2.00 for all computer science courses presented to satisfy the required and elective computer science requirements.

3. All computer science majors must earn a minimum cumulative grade point average of 2.00 for all computer science courses taken at UMR which are presented to satisfy the required and elective graduation requirements.

CC1 3419, Physics. Approved for Fall 1991. Change in curriculum. Phy 309 deleted from second semester junior year and Phy 332 added. Phy 311 added to second semester senior year.

CC1 3420, Aerospace Engineering 495, Continuous Registration. Approved new course for Fall 1991. 1 hour credit. No prerequisites. Description reads: Doctoral candidates who have completed all requirements for the degree except the dissertation, and are away from the campus must continue to enroll for at least one hour of credit each registration period until the degree is completed. Failure to do so may invalidate the candidacy. Billing will be automatic as will registration upon payment.

CC1 3421, Mechanical Engineering 253, Manufacturing. Approved for Fall 1991. Change in prerequisites from ME 53, ME 25 to ME 153, ME 161. Change of catalog description to: Advanced analytical study of metal forming and machining processes such as forging, rolling extrusion, wire drawing and deep drawing; mechanics of metal cutting - orthogonal, turning, milling, cutting temperature, cutting tool materials, tool wear and tool life, and abrasive processes.

CC1 3422, Mechanical Engineering 242, Mechanical Engineering Systems. Approved for Fall 1991. Change in prerequisites from ME 240, 221, accompanied or preceded by ME 231, 225 to ME 240, 221, 231, 225. Change of catalog description to: A laboratory course focusing on experimental design and evaluation of complete mechanical engineering systems. Analysis of both mechanical and thermodynamic systems is included. Emphasis is on evaluating system performance and improving student written and oral communication skills.

CC1 3423, Mechanical Engineering 208, Machine Design I. Approved for Fall 1991. Change in prerequisites from BE 110, ME 53, ME 213, Met 121 to BE 110, ME 153, Met 121, and accompanied or preceded by ME 161. Change in description to: Analysis of machine elements such as shafts, springs, screws, belts, bearings, and gears; analytical methods for the study of fatigue; comprehensive

treatment of failure, safety, and reliability. Introduction to finite element methods in mechanical design.

CC1 3424, Mechanical Engineering 153, Introduction to Manufacturing Processes. Approved for Fall 1991. Change in course number from 053. Change in prerequisites from EG 10 to EG 10 or EG11. Change of catalog description to: Introduction into the fundamentals of manufacturing processes. Welding, joining, casting, forming, powder metallurgy and material removal are covered. The material is presented in a descriptive fashion with emphasis on the fundamental working of the processes, their capabilities, applications, advantages and limitations.

CC1 3425, Mechanical Engineering 161, Introduction to Design. Approved for Fall 1991. Change in course number from ME 25 to ME 161. Change in course title from Mechanical Design. Change in prerequisites from EG 10, Math 8 to EG 10, Math 8, Phys 23, ME 153. Change in catalog description to: Introduces the process of design with emphasis on creativity and design visualization. Students are taught to produce elementary, workable mechanical designs. Several design projects are involved.

CC1 3426, English. Approved for Winter 1992. Change in curriculum.

Justification: The minor in technical writing is designed to enhance understanding of the kinds of writing done in business and industry and to develop the student's ability to write technical reports, create manuals, and prepare other corporate publications using computer-aided layout and graphics. It is in keeping with UMR's mission as Missouri's Technological University.

CC1 3427, English 065. Approved new course for Winter 1992. 3 hours credit. Prerequisite: English 1. Description reads: Introduction to the role of professional technical writer in business and industry and practice in methods of developing technical materials such as operation and maintenance manuals, field bulletins, grant proposals, inserts, or other technical publications. (Not recommended for engineering majors).

CC1 3428, English 260, Practicum in Technical Writing. Approved new course for Winter 1992. 3 hours credit. Prerequisites: English 65 or 160. Description reads: Practice in writing, editing, and designing layouts of technical publications using the personal computer for desktop publication.

Curricula Committee
June 5, 1991 Meeting



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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Telephone (314) 341-4972

TO: UMR Faculty

AGENDA

Academic Council Meeting

Thursday, June 20, 1991; 1:30 p.m.; G-5 H/SS

I. Approval of minutes of the April 25, 1991 meeting

II. Reports and Responses

- A. President's Report (10 min) Vince Roach (4449)
- B. Chancellor's Report (20 min) John Park (4114)
 - 1. Interim Action Plan
 - 2. Assessment
 - 3. Hazardous Chemicals/Safety
 - 4. Other

III. Reports of Standing and Special Committees

- A. Admissions and Academic Standards (no report) Tom Herrick (4507)
 - 1. Extenuating Circumstances (March 28, 1991)
 - 2. Grades for Withdrawing Students (March 28, 1991)
- B. Budgetary Affairs (no report)
 - 1. Parking Fees, Fee Usage and Internal Audit
- C. Curricula (5 min)
 - * 1. Report No. 7, 1990-91
 - 2. Catalogue of Record for Graduation Requirements (Oct 25, 1990)
- D. Parking, Security, & Traffic Safety (5 min) Clark Barker (4686)
 - * 1. Pets on Campus
- E. Personnel (10 min) Lance Haynes (4803)
 - 1. Faculty Evaluation of Department Chairs (March 29, 1990)
 - 2. Revised Affirmative Action Procedures (October 25, 1990)
 - 3. Revised Tenure and Promotion Document (January 24, 1991)
 - 4. Revision of the Discrimination Policy (March 28, 1991)
 - 5. University Policies and Services related to Employees with Young Children (March 28, 1991)
 - 6. Hazardous Chemicals/Waste Materials (April 25, 1991)
- F. Rules, Procedures and Agenda (10 min) Don Askeland (4730)
 - * 1. Bylaws Revision
 - * 2. Proposed Meeting Dates, AY 1991-92

G. Student Affairs (5 min) Howard Pyron (4495)
* 1. Approval of constitution

H. Student Awards and Financial Aids (No Report) John Sheffield (4690)
1. Unofficial Withdrawal Policy (June 14, 1990)
2. Work Study Assignment Practices (September 13, 1990)

I. Committee on Effective Teaching (No Report) Dale Elifrits (4847)
1. Student Evaluation Form Update

J. Ad Hoc Committee on Teaching Effectiveness (No Report)
1. Student Expectations of Professors in Teaching Classes (March 28, 1991)

K. Intercampus Faculty Council (5 min) Vince Roach (4449)

IV. Old Business

V. New Business
1. Tax Initiative

*Supplementary materials sent to Academic Council members and department chairs.

1. The campus hold those with the responsibility and authority for promoting research accountable for the financial resources devoted to research.
2. A phased improvement in the programs which provide incentives to research investigators should occur.
3. University policies which hinder the faculty in carrying out research should be reconsidered.

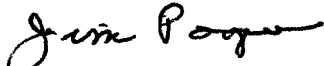
The committee included some specific recommendations regarding each of the three broad recommendations. Copies of those recommendations are included with the official minutes.

INTERCAMPUS FACULTY COUNCIL:

President Roach, reporting for ICFC, noted that assessment has been, and will be at the next meeting, a major topic, especially regarding the instrument for assessment of general education.

NEW BUSINESS:

Professor Ken Robertson expressed serious concern regarding (1) the need for a true "Reading Day" at the end of each semester and (2) the class time now being given to various facets of assessment. He suggested that, as necessary, days be added to the calendar during the appropriate semester(s) to compensate for days lost to assessment and to implement reading days. Professor Robertson's concerns will be referred to the Calendar Committee for recommendation to the Council.



Jim C. Pogue
Secretary

JCF/cmb



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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Vol. XX, No. 8
June 20, 1991

XX.8 The June 20, 1991, meeting of the Academic Council was called to order by President Roach at 1:31 p.m. The following substitutions were noted: Prof. Paul Stigall for Prof. Randy Moss (Electrical Engineering), Prof. Jim Hufham for Prof. Roger Brown (Life Sciences), and Prof. Gregory Gelles for Prof. Richard Bryant (Economics).

XX.8 The minutes of the April 25, 1991, meeting were
I. approved as distributed.

XX.8 PRESIDENT'S REPORT: President Roach reported
II.A briefly on three items:

1. President Roach informed the Council that President C. Peter Magrath had only this morning announced his resignation as President of the University of Missouri in order to assume the office of President, National Association of State Universities and Land-Grant Colleges. President Magrath will assume his new duties shortly after the General Election in November in order to continue working for approval of the Missouri Tax Initiative. President Roach commended President Magrath for his work in seeking increased funding for the University.
2. President Roach then noted that this meeting of the Council is his last as President. He expressed his appreciation to Chancellor Park for his support and assistance during the past year, and to the Council and to committee members especially for all of their work. He noted that it is in the committees that much of the work of the Council occurs.
3. President Roach next commented that the Board had approved an amendment to the UM retirement plan: previously, for retirement computations, a person used an average of the five highest consecutive salary years of the last ten; now it is simply the five highest consecutive years.

XX.8 CHANCELLOR'S REPORT: Interim Chancellor Park reported to
II.B the Council on a number of items:

1. Chancellor Park announced that he had formed a Chancellor's Advisory Group composed of RP&A members, the two immediate past presidents of the Council, and the three ICFC members to meet with him on a bi-weekly basis for discussion of and advice on campus and university issues.
2. Chancellor Park discussed student assessment and the use of the College Base instrument for that assessment. He noted that both the process and instrument are mandated by the Board. He urged full faculty and student support of the program.
3. Chancellor Park stated that Hazardous Waste/Safety issues are a shared responsibility by the chancellor, deans, department chairs, and faculty, not of the faculty alone. Faculty are protected by the University except in instances of malfeasance or disregard of duties, and if good faith was shown by the faculty member.
4. Chancellor Park reported in detail (with slides) regarding an Interim Action Plan for the campus. A hard copy of his slides (the outline for his remarks) is on file in the Council office. In summary, immediate priorities for the campus are (1) to maintain and even increase our campus momentum and (2) to work for passage of the tax referendum. His personal vision for the immediate future includes: (1) seeking a campus enrollment of 5,000 to 5,500 students (1,000 graduates and 4,000 to 4,500 undergraduates); (2) being able to strengthen our programs sooner with the new tax monies than earlier seemed possible; (3) maintaining our valued traditions such as small class sizes, a loyal faculty, and an excellent environment for learning; and (4) perceiving of UMR as a public institution with the best of the methodology of private institutions, such as in recruitment of students and external development.
5. Chancellor Park next discussed the budget for fiscal year 1991: no general salary increases; a potential (all approximations at this time) of up to a 9 percent withholding (6 percent in addition to the usual 3 percent); a consequent possible slowdown in new program expenditures; and a very hard look at all hiring though no freeze as such is in place.
6. Finally, Chancellor Park discussed Development programs (external) and long-range planning.

Development programs are essential to the campus, but must involve department planning in terms of what is needed and why. The Long-Range Planning Task Force will soon complete its work. In that regard, Chancellor Park distributed to Council members draft copies of information requested by the Planning Committee by July 1: a description of the campus mission; a discussion of institutional distinctiveness; strategic themes (goals) of the campus; and priorities. Given the time of year and the July 1 deadline, general review and comment by faculty are difficult; therefore, on behalf of the faculty, RP&A, and others will meet on Tuesday, June 25, 1991, to draft a response to the information provided by Chancellor Park.]

In a question period following Chancellor Park's report, it was observed that once again faculty review of and response to an issue (long-range planning) have been requested, but without adequate time for a normal and proper review process to occur because of a hurry-up deadline.

Professor Cohen inquired regarding the implementation or not of the Management-Systems degree program. Chancellor Park replied that the program has been approved by CBHE, and could now be implemented at the discretion of the campus. New hiring for this program is on hold, but it may be possible to begin the program with existing faculty. That decision is still under consideration. There is value in beginning the program to help stabilize enrollment and to aid in retention.

Professor Leighly commented that he was relieved to learn that there would be no salary supplements permitted for fiscal 1992.

XX.B REPORTS OF STANDING AND SPECIAL COMMITTEES:

III.C Curricula: Curricula Committee Report dated June 5, 1991, was approved.

III.D Parking, Security, and Traffic Safety: Approval of the proposed policy memorandum regarding pets on campus was moved and seconded. After some brief discussion, the motion failed.

III.E Personnel: Professor Haynes reported on six items; a copy of his full typed report is available in the Council office.

1. Faculty Evaluation of Department Chairs: Work on this item continues.
2. Revised Affirmative Action Procedure: Professor Haynes moved approval of this procedure. His motion was seconded and approved.
3. Revised Tenure and Promotion Document: Work on this item continues.
4. Revision of the Discrimination Policy: Professor Haynes recommended that this item be removed from the agenda without action. His motion was seconded and then approved.
5. University Policies and Services Related To Employees with Young Children: Professor Haynes moved that in the event of impending parenthood during the six years preceding a tenure decision a delay in the tenure decision be possible. The Personnel Committee recommended that this concept be endorsed in principle but noted that such a policy requires Board action. The motion was seconded. After brief discussion, including a statement of reservation about the concept in that it does not speak to other possible causes for delaying a tenure decision (e.g. illness), the motion was approved.
6. Hazardous Chemicals/Waste Materials: Professor Robertson moved that the report of the Personnel Committee on this subject be forwarded to the President, the Chancellor, University Legal Council and others as appropriate. The motion was seconded and approved. In summary, the report noted that the policy on hazardous materials does place chairs, faculty, and others in civil and criminal jeopardy; the report then gives several recommendations that should be implemented to provide a proper, effective working policy.

At this point in the meeting, a motion was moved, seconded, and approved to extend the meeting for 15 more minutes (3:15 p.m.).

III.F Rules, Procedure, and Agenda: Professor Askeland moved that the proposed revision of the by-law on the selection of dean process be placed on the agenda of the General Faculty meeting in August, for action by a mail ballot

by the General Faculty. Copies of this revision were mailed to Academic Council members with the agenda for this meeting. The motion was seconded and then approved.

Professor Askeland moved approval of the proposed dates for meetings of the General Faculty and Academic Council for 1991-92. The motion was seconded and then approved.

- III.G Student Affairs: Professor Pyron moved approval of the constitution of the Gold Miner Dance Squad. The motion was seconded and then approved.

Professor Pyron moved approval of the constitution of the Voices of Inspiration at the University of MO-Rolla. After a question regarding the qualifications for membership in this organization, the motion was tabled.

- III.K Intercampus Faculty Council: Professor Roach announced that the report of ICFC will be included with these minutes.

- XX.B OLD BUSINESS: Professor Cohen requested that the following motion be moved and seconded, and then, in consideration of the lateness of the hour, be tabled until a later date. The motion was then moved, second, and tabled. The motion follows:

No new academic programs should be implemented at UMR until the Dean of the College with jurisdiction over the program explains to his college's faculty how the program will be funded and until that faculty gives its approval to the funding plan.

- XX.B NEW BUSINESS: President Roach announced that President Magrath will soon issue a letter concerning student fee increases and their use as S & W. The Board will act on student fee increases in July.

Following a second time extension of the meeting (5 minutes) for which only one vote was cast (in favor of the time extension - 1; opposed to time extension - 0) and some general conversation, the meeting adjourned at 3:20 p.m.

Respectfully submitted,



Jim C. Pogue
Secretary

UNIVERSITY OF MISSOURI-ROLLA
Missouri's Technological University

Strategic Themes*

- Research/Graduate Education
 - Research with special emphasis on technological issues critical to Missouri's Economic Development
 - Manufacturing
 - Material Science
 - Intelligent Systems
 - Environmental Science and Technology
 - Infrastructure
 - Graduate Education
 - Increased sponsored research expenditures
 - Expand Graduate Enrollment
 - Increase graduate student support
- Undergraduate Education
 - A technological university with full educational partnership between engineering, science, and the liberal arts
 - Update Undergraduate Degree Offerings
 - Biochemical Engineering Option
 - Management Systems (Interdisciplinary)
 - Address statewide engineering education opportunities for nontraditional students through VSAT and cooperative programs with other institutions
 - General Education
 - Computer Access
 - Basic and Higher Order Skills
 - Leadership
- Continuing Education
 - Serve the state's needs for professional education of practicing engineers and scientists
 - Satellite-Based Telecommunications
 - Technology Transfer and Economic Development

To achieve these goals, the University of Missouri-Rolla needs to attract and retain superior faculty and staff, provide state-of-the-art educational facilities and recruit a diverse student body of academically superior students. This growth of the student body will be carefully controlled with the majority of the growth focused on graduate students.

Academic Council Presentation
Thursday, June 20, 1991

(COLLEGE BASE ASSESSMENT)

Slide #1

Mandated by Board of Curators

PURPOSE

Curricular Evaluation and Improvement
Improved Student Advising
Public Accountability

Slide #2

Mandated by Board of Curators

IMPLEMENTATION

- All Students
Between 45 and 75 Credit Hours
Administered by Counseling and Testing
Evaluated by Academic Assessment
Provided to Advisors
Reviewed by Advisors with Students

(HAZARDOUS WASTE)

Slide #3

Shared Responsibility

Chancellor - Institutional Responsibility
Deans - Management Responsibility
Department Chairs - Supervisory Responsibility
Faculty - Professional Responsibility

UM EMPLOYEES

Slide #4

Defense and Protection

Against loss, damage, expense

- Claim/Suit from job performance
- Employees named defendants in legal actions
- No protection if action arose out of malfeasance in office or willful or wanton action or neglect of duty

Slide #5

Defense and Protection

Procedures

- Submit request to President
- Include description, documentation
- Good faith is determined
- Defense, protection legally permissible

INTERIM ACTION PLAN

Slide #6

(Lists an overview of topics)

Slide #7

(Lists an overview of topics)

(PERSONAL PRIORITIES)

Slide #8

Maintain and Increase Momentum
Tax Referendum

(VISION: NAT'L RECOGNIZED TECH UNIV)

Slide #9

5,000 - 5,500 students

1,000 graduate students

4,000 - 4,500 undergraduate students

Slide #10 Significantly Stronger

Slide #11

Holding on to UMR Traditions

- Small class size
- Caring about students
- Loyal faculty
- Environment for serious learning
- Pride of Rolla

Slide #12 Like a Top Ranked Private University

Values of a Public University
Opportunity for students who want to learn
Recruit and Develop Like a Private University

(ANALYSIS OF THE SITUATION)

Slide #13

Financially Tight Year

- No raises
- Mandated new expenses
 1. C-Base
 2. Open Castleman Hall

Slide #14

Financially Tight Year

Proposed fee increase of 12%

75,000 short of Balance of Books

Additional Withholding Likely

Review of Open Positions

(1991 BUDGET)

Slide #15 State Revenues - \$120-\$190 million short
\$150,000,000 = 9% of withholdable budget

Legislature appropriation
\$38,000,000 more than Governor requested

Slide #16

- Governor NOT made recommendations
- Possible withholding of 6% to 9%
- Budget built on a withholding of 3%
- UMR/UMSL Cooperative Engr Program
(VETO likely)
- Engr Equip Bill (VETO possible)

Slide #17

Short-term Action

- Hiring "reconsideration"
- New program expenditures slowdown

Slide #18

Enrollment

39% decrease in last 8 years

Apps up out state - increased reputation

Applications down in St. Louis

Slide #19 (Enrollment graph 1982-1991)

Slide #20

Enrollment

New initiatives

1. PSAT mailing - recruiting area
2. Telemarketing
3. Changes in Chancellor's Banquet Program
4. Reorganization of Enrollment Services

Slide #21

Enrollment

New Initiatives

5. New Associate Vice Chancellor
for Enrollment Services
6. On campus visit program
7. Publications (scholarship program)

Slide #22

Enrollment

Retention

Advising

Math 4/6

Longitudinal study

Slide #23

Development

Draft case for UMR as
Missouri's Technological University

Development Campaign Planning Begun

Feasibility study

Slide #24

Tax Referendum

Critical to UMR
Information campaign
Funding Fiscal Year 92

•

Slide #25 PREPARATIONS FOR THE TAX REFERENDUM
AND
DEVELOPMENT FEASIBILITY STUDY

Slide #26

UMR's Strategic Plan

White Paper
(Missouri's Technological University)

UMR strategies

Slide #27

Departmental Plans

Departmental role
in fulfilling the campus mission

Resources required
to carry out departmental plan

. Departmental beneficiary list

(WE CAN MAKE IT HAPPEN)

Slide #28 Prepare Case Statements (Proposals)
Education Tax Referendum Campaign
Development Campaign
Opportunity to Make a Difference

Slide #29

Prepare Case Statements

Issue Based Themes

Societal

Economic Development

Education

Campus

Slide #30

Prepare Case Statement

State Unit Goal Related to the Issue
Analysis of current status
1. Potential
2. Accomplishments

Slide #31

Justify needs
Provide specific beneficiary lists
Relate each request to the goal

Slide #32

Tax Referendum Campaign

Plan strategy
a. emphasize relevant issues
b. relate to needs of audience

Slide #33

Tax Referendum Campaign

Recruit faculty support
Recruit staff support
Inform neighbors and friends
Opportunities to influence groups

Slide #34

Development Campaign

Polish Case Statement
Identify potential donors
Prepare specific proposals
Work with University Advancement

Slide #35

Unique Opportunity
to make
a real difference!



UNIVERSITY OF MISSOURI-ROLLA
Missouri's Technological University

School of Engineering

Department of Mechanical and Aerospace
Engineering and Engineering Mechanics

Mechanical Engineering Building
Rolla, MO 65401-0249
Telephones: Chairman (314) 341-4662
Faculty (314) 341-4661
Fax (314) 341-4607

MEMORANDUM TO: Professor Vince Roach, President, Academic Council

FROM: C. R. Barker, Chair Parking, Security and Traffic
Committee *CRB*

DATE: May 2, 1991

RE: Pets on campus and rules and regulations

The Parking, Security and Traffic Committee met on May 1, 1991 and approved the draft of the policy memorandum regarding pets on campus.

In addition, the requested change in the rules and regulations Section .07 Article .0704 was also approved. At a later time you will receive from the committee a number of other changes in the rules and regulations which were approved. I am responding to these two items separately to avoid any unnecessary delays.

/rt

Personnel Committee Report to Council, June 20th, 1991

1. Faculty Evaluation of Department Chairs--Remind council that consideration of this issue led to the revised Format for Reporting Confidential Meeting between Chairs and Faculty Members. A sub-committee led by Professor Cronin continues to study the matter and will further report to the Council in the Fall.

2. Revised Affirmative Action Procedures--In consideration of the extent to which subject procedures are primarily intended to represent the university's stand toward Federal Government policies regarding affirmative action, and having kept abreast of the policy's workings during the last year, the committee recommends the council approve the Revised Affirmative Action Procedures referred to us on October 25, 1990 and distributed to the council at that time. (Motion)

3. Revised Promotion and Tenure Procedures Document. The committee has further revised the document, both to condense it and to incorporate procedures for offers of tenure and/or academic rank to non-faculty hires, and will be forwarding this latest a revision to Vice Chancellor Haddock for his review and comments in the near future. We hope to have a complete revision before the Council in the early Fall.

4. Revision of the Discrimination Policy toward students.

The issue is whether or not our campus should adopt a revised statement of policy on discrimination and, if so, should that policy be more or less specific than the present policy which specifies certain categories (i.e. color, religion, age, disability, Vietnam era veteran status, gender, and race) but does not include sexual preference. A particular revision was examined which includes a general statement "any other factor unrelated to ability to perform as a student in a manner compatible with the University's function as an educational institution" as well as the aforementioned categories, excluding sexual preference. The committee generally felt that the more general statement was preferable but, in view of the likelihood that such statements must eventually correspond to federal government policy, the committee recommends that the council take no action on this issue.

5. The Personnel Committee was asked to respond to a request from an ad Hoc committee regarding university policies for employees with young children. Since the faculty was polled directly by the Staff Council on all but one of the issues the ad hoc committee raised, the personnel committee elected to respond only to that one issue, which deals with the question of tenure decision delays in the event of impending parenthood. The committee recommends that the council indorse this idea in principle but note that such a policy would require very precise action at the Board of Curators level.

(motion)

6. In response to Professor Robertson's motion at the last meeting requesting the Personnel committee to move expeditiously to consider the ramifications of the hazardous waste policy upon chairs, heads of divisions, faculty and others, the committee has considered the policy on two occasions and find the following:

A. That indeed the chairs, heads of divisions, faculty and others are placed in civil and criminal jeopardy by this policy;

B. That the University should investigate obtaining liability insurance for employees so affected by this policy in the same spirit that insurance is presently obtained for medical school faculty.

C. That the University should be responsible for dealing directly with the EPA while individual employees should not be so responsible;

D. And that the idea of assigning responsibility for fines resulting from hazardous waste problems to individual departments is unrealistic.

Over
Legal office
Chazella
re: card on
Robertson

10 June 1991

To: Academic Council

From: R P & A *CR*

Subject: Revision of by-law on dean selection process

In April 1990 the General Faculty approved by mail ballot a revised by-law governing the selection of a department chair (4.24.90). The Board subsequently approved the change. What follows here is a revision of the by-law governing the selection of a dean (4.24.90). It is designed to bring the dean selection procedure more in line with that approved by the Board for selecting a department chair. After the April 1990 deliberations the general faculty failed to pass via mail ballot a revision of the dean selection procedure (132 for, 83 against, 4 abstentions; 146 votes for approval were required on that occasion).

At that time there was some confusion, or concern, that the prerogatives of the Chancellor and those of the Faculty may not have been made sufficiently clear. Note how the revision recommended below addresses that concern and clarifies the prerogatives of both parties--and conforms to what the Board of Curators finds acceptable. The key points are enumerated for easier evaluation; those numerals will not appear (unless the Council requires them) in the official by-law entry, should the Council and, subsequently, the General Faculty, approve this revision for recommendation to the Board:

The chief executive and administrative officer of each School or College is the Dean. When this position is vacated, a Dean Search and Screen Committee shall be elected by the School or College faculty with each department electing one representative. This committee shall (1) elect a chair from its membership, (2) search for and screen candidates, (3) select candidates to be interviewed, and (4) interview those applicants. The Committee shall ensure that all individuals and constituencies deemed appropriate by the Chancellor and / or the Committee are invited to participate in the interview process. From the applicants interviewed, the Committee shall recommend to the Chancellor three to five candidates for the position of Dean. From this list of candidates, the Chancellor shall either appoint the Dean or return the search to the Committee with an explanation of why the candidates as a group are either unacceptable or unavailable. The work of the Committee shall not be completed until a new Dean is appointed by the Chancellor from a list of candidates recommended by the Committee.

Please note the freedom of the Chancellor to conduct his responsibilities according to the powers invested in him by the Board of Curators. Please note also that Faculty / Committee roles in this process are much more clearly defined.

14 February 1991

From: Clyde 

To: R P & A

*Section
4.24.90*

Subject: By-law Revision

The following is a draft of a proposed change in the faculty by-law governing the process of selecting a dean for the UMR campus. It proposes two things:

1. to establish uniformity, where appropriate, with the revised by-law (approved 1990) governing the selection of a department chair
2. to enable appropriate people from the campus at large, the alumni, the community, etc., to participate in the process

The chief executive and administrative officer of each School or College is the Dean. When this position is vacated, a Dean Search and Screen Committee shall be elected by the School or College faculty with each department electing one representative. This committee shall (1) elect a chair from its membership, (2) search for and screen candidates, (3) select candidates to be interviewed, and (4) interview those applicants. The Committee shall ensure that all individuals and constituencies deemed appropriate by the Chancellor and/or the Committee are invited to participate in the interview process. From the applicants interviewed, the Committee shall recommend to the Chancellor three to five candidates for the position of Dean. From this list of candidates, the Chancellor shall either appoint the Dean or return the search to the Committee with an explanation of why the candidates as a group are either unacceptable or unavailable. The work of the Committee shall not be completed until a new Dean is appointed by the Chancellor from a list of candidates recommended by the Committee.



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

202 Norwood Hall
Rolla, MO 65401-0249
Telephone (314) 341-4972

Proposed Meeting Dates
Academic Year 1991-92

General Faculty

Tuesday, August 27, 1991
Tuesday, December 3, 1991
Tuesday, May 5, 1992

Rules, Procedure, & Agenda

Thursday, September 12, 1991
Thursday, October 10, 1991
Thursday, November 7, 1991

Thursday, January 9, 1992
Thursday, February 13, 1992
Tuesday, March 10, 1992
Thursday, April 9, 1992
Thursday, June 11, 1992

Academic Council

Thursday, September 26, 1991
Thursday, October 24, 1991
Thursday, November 21, 1991

Thursday, January 23, 1992
Thursday, February 27, 1992
Thursday, March 26, 1992
Thursday, April 23, 1992
Thursday, June 25, 1992

Notes

Classes begin, August 26, 1991
Thanksgiving, November 28, 1991
Classes end, December 13, 1991

Classes begin, January 15, 1992
St Pats, March 12-13, 1992
Spring Break, March 30-April 3, 1992
Classes end, May 8, 1992

Board of Curators

July 25-26, 1991
September 5-6, 1991
October 17-18, 1991
December 5-6, 1991

January 29-30, 1992
March 19-20, 1992
May 7-8, 1992 (Rolla)
June 18-19, 1992
July 30-31, 1992
September 17-18, 1992
October 22-23, 1992
December 3-4, 1992



UNIVERSITY OF MISSOURI-ROLLA

Teaching Development Program

211 Humanities-Social Sciences Building
Rolla, MO 65401-0249
Telephone: (314) 341-4803
C0334@UMRVMC.BITNET

June 25, 1991

Mary Fulley, Advisor
Voices of Inspiration
234 McNutt Hall

Dear Mary:

I am writing to clear up any misunderstandings that members of the Voices may have regarding the question I raised in Academic Council about their suitability for status as a student organization. As you know, I have been a long-time supporter of African-American causes on our campus and this issue is thus one of special concern for me.

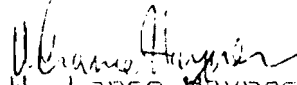
The Voices of Inspiration constitution, as written, states that one must be "display a committed interest" in the goals of the group. Because the goals of the group include purposes that reflect a particular sectarian religious orientation, this membership criterion could easily be interpreted by its officers to exclude anyone who does not share the particular religious beliefs of the group as the group's officers determine those beliefs to be. However, to so exclude anyone would, in my mind, be religious discrimination--something a state university cannot support.

As I told you in our recent conversation, I believe a simple change in the constitution will suffice: removing the word "committed" and otherwise rephrasing that statement to make it clear that the organization is open to anyone who would like to join. I will be happy to work with your members to craft such a change if they like.

I believe there are two important reasons this change is in order. First, I would hope an organization like the Voices would want to be above reproach on questions of discrimination, both because African-Americans have led our society in opposing discrimination and because of the Christian orientation of the group's membership. Second, and I think this is also quite important, by responding to this challenge, the Voices will have joined the Academic Council in establishing a healthy precedent for denying student organizations with any hint of discrimination in their past or in their charters.

With the constitution satisfactorily amended, I will personally speak in favor of its approval to the Academic Council.

Sincerely,


W. Lance Haynes
Associate Professor

CC: Vincent Roach ✓
Don Askeland

Approved for mailing: 6/27/91



UNIVERSITY OF MISSOURI-ROLLA

School of Mines and Metallurgy

Department of Geology and Geophysics

125 McNutt Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4616

28 May 1991

To: Dr. Vince Roach
From: G.B. Rupert
Ref.: Proposed tax increase for education

Vince;

Now that the proposed tax increase for education will be submitted to the voters, undoubtedly there will be a flurry of memos from all levels of administration for university staff and faculty to publicly support its passage.

x I have concern that the program enhancements, services, and quality improvements will translate into additional administrative positions and the establishment of additional "programs and services" rather than support of existing ones. Conspicuously absent is any mention of repairing the salary base. As a tenured faculty member with 31 years of service, I have heard of the need to compensate faculty and staff countless times, but have yet to see any significant improvement.

I therefore suggest the Academic Council request a statement from both the U-Wide and local administration addressing the salary issue and how the proposed tax monies will be spent. If the administration is even marginally competent, proposed allotment of the anticipated funds is already known. This needs to be revealed to the staff and faculty. I for one do not wish to support a carte blanche check to enhance someone's resume. If such a resolution is indeed passed, I further recommend it be sent to the other academic councils with the hope they will pass similar ones.

Jerry



UNIVERSITY OF MISSOURI-ROLLA
Missouri's Technological University

Foreign Languages

213 Humanities-Social Sciences Building
Rolla, MO 65401-0249
Telephone (314) 341-4185

June 20, 1991

MEMO TO: Members of the Academic Council

FROM: Jerry Cohen, Foreign Languages


Spring 1991

SUBJECT: Concerns about the Arts and Sciences Management-Systems Program

At the May 1991 Academic Council meeting a motion was passed inviting John Park to answer questions about the proposed Management-Systems Program in Arts and Sciences. Here are the main questions I have:

- 1) According to the plan for the Management-Systems degree, the cost of instituting the program over a 5-year period will be \$809,000. According to my own calculations, the program will then cost a minimum of \$284,000 annually to run. Where is this money coming from?
- 2) Our College does not have sufficient funds to run properly the programs already on the books. Why, therefore, in this time of a very tight budget are we initiating a major new program?
- 3) Would it not be appropriate for UMR's upper administration to issue a statement of strong support of the faculty, specifically by making salary raises the first priority? Not new programs. Not new administrative positions. But support for the faculty, which should not have to accept a zero salary raise and then see the good times rolling elsewhere on campus.

MOTION:

 No new academic programs should be implemented at UMR until the Dean of the College with jurisdiction over the program explains to his college's faculty how the program will be funded and until that faculty gives its approval to the funding plan.

JC:ch

cc: Arts and Sciences Faculty

BACKGROUND

The College of Arts and Sciences is apparently about to institute a Management-Systems Program, involving the Economics, Psychology and Computer Science departments. I have one main concern about this program:

Our College does not have sufficient funds to run properly the programs already on the books. Why, therefore, in this time of a very tight budget are we initiating a major new program?

THERE ARE CONSIDERABLE COSTS INVOLVED.
AND WHERE IS THE MONEY COMING FROM?

Here is a general picture of the costs involved in the new program: ¹

- 1) The proposal foresees the hiring of four new faculty-- one per year from FY '93 through FY '96.

FTE 1:	Salary:	\$45,000	Benefits:	\$8,100
FTE 2:		45,000		8,100
FTE 3:		30,000		5,400
FTE 4:		<u>40,000</u>		<u>7,200</u>

TOTALS:	\$160,000	\$28,800
---------	-----------	----------

Total of salary and benefits for the 4 additional faculty: \$188,800 annually.

This does not include additional salary costs from raises and sabbaticals.

- 2) The average E&E allotment per FTE faculty in the College of Arts and Sciences in 1990-91 was \$2,984-- (source: report by Institutional Research; available in the Chancellor's Office). Multiply by 4 (new faculty); TOTAL - about \$12,000. Let's figure the expenditures a bit more conservatively and make the total \$8,000.
- 3) The new hirees will all need computer work-stations; the cost is \$4,000-6,000 per faculty. Meanwhile, office furnishings run about \$1,500 per faculty. Therefore,
TOTALS -
computer work-stations: about \$20,000
office furnishings: about \$6,000

1

A basic reference-work for this purpose is "A Proposal for the Establishment of a Bachelor of Science Degree in Management Systems at the University of Missouri-Rolla." This work must be supplemented by conversations with the faculty and administrators familiar with the program. As of this writing, there is still some uncertainty (indicated by question marks).

- 4) The presently appointed program-director will receive an administrative increment (of about \$12,000) and a private secretary (\$12,500 salary; \$2,250 benefits).

Reportedly, too, she was negotiating for a year's leave of absence with full pay after serving as director for one or two years. The cost of her leave would be:

her base salary -- \$35,000?

possibly too --

her administrative increment: \$12,000

Total for the leave: about \$47,000

- 5) The plans for the program call for a permanent director at a salary of \$35,000 and benefits of \$6,300. But Walter Johnson (Chairman of Economics) informs me that these figures are understated. In discussions involving Dean Barker and the chairmen of the participating departments, it was agreed that \$55,000-60,000 would be the actual figure. Since the hiring will not be made for two years, the salary would be higher rather than lower; hence: ca. \$60,000.

Therefore:

SALARY of director: \$60,000

BENEFITS of director: 13,000

ANNUAL TOTAL for director: \$73,000

TOTALS

\$188,800	Salary & Benefits for the 4 additional faculty
8,000	Estimate of E&E for the 4 additional faculty
73,000	Salary & Benefits for the Director
<u>15,000</u>	Salary & Benefits for the secretary

\$284,800 TOTAL OF ANNUAL COSTS¹

and

\$ 20,000	computer work-stations for 4 additional faculty
6,000	office furnishings for 4 additional faculty
<u>47,000</u>	cost of leave for the temporary director ²

\$ 73,000 TOTAL OF TEMPORARY COSTS

¹ These figures are conservative. They do not include salary raises or replacement costs due to sabbaticals.

² Exact figures not yet clear.

IMPACT OF THE NEW PROGRAM ON EXISTING PROGRAMS

The administration apparently plans to save money by shifting a few positions to the new program from elsewhere in the Arts and Sciences, e.g. when retirements occur. Which Arts and Sciences programs are slated for such cutbacks?

CAUTION ABOUT ASSURANCES

I am cautious about the reassurance that increased tuition from enrollees in the management-systems program will offset the costs of the program to a significant degree. At least some of the enrollees in management-systems would be at UMR anyway. And whatever increased tuition-revenue the new program may produce will not necessarily be channeled to Arts and Sciences.

But our College will almost certainly bear the brunt of the costs.

June 26, 1991

MEMO TO: Members of Academic Council

FROM: Vince Roach, ICFC Member *DVR*

SUBJECT: Intercampus Faculty Council Activities

The ICFC has met twice since the April Academic Council meeting. Minutes of the May 9th meeting are on reverse side of this memo. No Rolla representative was able to attend the June 6th meeting and the minutes have not been sent but I understand the meeting was devoted to reports regarding the tax initiative, budget, and long-range planning. A video teleconference was held on June 18th between ICFC representatives on each of the campuses and Richard Wallace, Mark Burkholder, and Arvarh Strickland at central administration. The time was devoted to discussion regarding Weldon Springs Guidelines for the next academic year. At that time, I conveyed to the group our concern and need for a clear statement from President Magrath regarding how he will address the salary and wage problem of faculty and staff in terms of the proposed student fee increase/tax initiative. Richard Wallace said such a statement is in preparation.

DVR/pjc

Minutes of the Intercampus Faculty Council Meeting, May 9, 1991

Meeting started at 10 am in President's Conference Room in University Hall, Columbia. Present were Professors Roach, Taylor, Hahn, Roth, Friedman, Gustufson, McNeil, Wolff and Peterson.

The meeting was called to order by IFC Chair Taylor. The minutes of the April 4, 1991 meeting were approved as distributed. A discussion ensued about the current state of the Education bill in the House and with the Governor. Additional items for discussion involved assessment and the Curators action at the May 3 Board meeting. The group agreed to write the three Curators who spoke against the mandated uniform test and thank them for their statements. Additional discussion of the letters to President Mcgrath from Curator Cozad followed. A brief discussion of the appointment of a Joint Task Force on Teaching and Workloads followed.

At 11 am Vice-Presidents Wallace and McGill and Assoc. VPs Strickland and Burkholder joined the meeting. An update on the political machinations of the Tax Bill followed. Further discussion of the recent Curators meeting followed. Dr. Wallace shared the tentative agenda for the June Board meeting with the group.

A discussion of the Weldon Spring distribution followed. Dr. Burkholder reviewed the data on the funded proposals and also discussed the critiques of the recent process. Certain criteria for next year were proposed. Some of the criteria might be for younger faculty who have not had support or for more experienced faculty who might be making a mid-career change of research direction to receive targeted funds. There seemed to be general agreement that faculty with well funded programs should not be given preference for WS funds, but rather that they be used for seed money for projects which, when farther along might stand a good chance of outside funding. Burkholder pointed out the very high overhead of our present method of proposal evaluations. It was suggested that a multicampus faculty advisory group might be formed to look into the matter.

Long range planning for the system was discussed next. It was noted that the consultant group from NCHEMS was continuing to emphasize the distinctiveness of the four campuses.

A discussion of the System DataBase followed. Dr. McGill noted that the groups will meet on Monday, May 13 to discuss further details of the process. When asked about whether the system was being

designed to only run on a specialized machine such as an AS-400 or R-6000, McGill said that all data will fit on the mainframe and would be available there.

The issues of student fee increases was discussed at great lengths. The President will recommend a substantial fee increase for ALL students with graduate and professional student fee increases. It was also noted that the "Russell" report on increased fees for professional students would NOT be implemented.

Professor Roth asked about maximizing library resources in these tight financial times. He, and others are especially concerned about the better distribution of the Tables of Contents of journals that are not duplicated. Dr. Wallace and staff will look into the matter along with contacting Telecommunications Coordinator Burton.

There being no further business, the meeting adjourned at 2:00 pm.

Respectfully submitted,

Allen W. Hahn, Recorder for a day (again).



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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AGENDA

Special Meeting of the

UMR Academic Council

Thursday, April 11, 1991

1:30 p.m.

G-5 Humanities/Social Sciences Building

I. President's Comments

- * II. Consideration of UMKC resolution on mandatory assessment instrument
- ** III. Concerns regarding University System and UMR administrative operating procedures
- ** IV. 1991-92 budgetary considerations, including salary freeze

- * Attachment 1: UMKC's resolution
- ** Attachment 2: Set of proposed resolution drafts forwarded to President Roach from a group of concerned faculty



UNIVERSITY OF MISSOURI-ROLLA

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TO: UMR Faculty

AGENDA

Academic Council Meeting

Thursday, April 25, 1991; 1:30 p.m.; G-5 H/SS

I. Approval of minutes of the March 28, 1991 meeting and the April 11, 1991 meeting.

II. Reports and Responses

- A. President's Report (10 min) Vince Roach (4449)
- B. Referrals
 - 1. Pets on Campus, to Parking, Security, & Traffic Committee
 - 2. Parking Fees, Fee Usage and Internal Audit, to Budgetary Affairs Committee
- C. Chancellor's Report (15 min) Martin Jischke (4114)
(including UMR athletic program)

III. Reports of Standing and Special Committees

- A. Admissions and Academic Standards (20 min) Tom Herrick (4507)
 - * 1. Excused Absence Procedure (May 5, 1988)
 - * 2. Minimum Grade Procedures (April 26, 1990)
 - * 3. Final Examination Policy (October 25, 1990)
 - 4. Extenuating Circumstances (March 28, 1991)
 - 5. Grades for Withdrawing Students (March 28, 1991)
- B. Campus Safety Committee (No report) John Carstens (4361)
 - 1. Hazardous Chemicals/Waste Materials Policy Draft (Oct 25, 1990)
- C. Curricula (5 min) Joe Newkirk (4725)
 - * 1. Report No. 6, 1990-91
 - 2. Catalogue of Record for Graduation Requirements (Oct 25, 1990)
- D. Personnel (15 min) Lance Haynes (4803)
 - 1. Faculty Evaluation of Department Chairs (March 29, 1990)
 - 2. UM Sexual Harrassment Policy Proposal (June 14, 1990)
 - 3. Revised Affirmative Action Procedures (October 25, 1990)
 - 4. Revised Tenure and Promotion Document (January 24, 1991)
 - 5. Revision of the Discrimination Policy (March 28, 1991)
 - 6. University Policies and Services related to Employees with Young Children (March 28, 1991)
 - 7. Format for Confidential Reports (March 28, 1991)

- E. Student Awards and Financial Aids (No Report) John Sheffield (4690)
 - 1. Unofficial Withdrawal Policy (June 14, 1990)
 - 2. Work Study Assignment Practices (September 13, 1990)

- F. Committee on Effective Teaching (5 min) Dale Elifrits (4847)
 - 1. Student Evaluation Form Update

- G. Ad Hoc Committee on Teaching Effectiveness (No Report)
 - 1. Student Expectations of Professors in Teaching Classes (March 28, 1991)

- H. Intercampus Faculty Council (5 min) Vince Roach (4449)

IV. Old Business

V. New Business

*Supplementary materials sent to Academic Council members and department chairs.

RESOLUTION I

Whereas the faculty believes that proper communication is essential to the operation of the campus,

Whereas the faculty has not been officially notified of the resignation of the Chancellor,

Be it hereby resolved that the Academic Council of the University of Missouri-Rolla:

1. Expresses its displeasure in the manner in which the members of the faculty were informed of the resignation of the Chancellor.

RESOLUTION II

Whereas the faculty is supportive of the long tradition of student athletes at UMR,

Whereas the faculty should be governed only by academic personnel,

Be it hereby resolved that the Academic Council of the University of Missouri-Rolla:

1. Requests the immediate review by the President of the appointment of the Interim Athletic Director.

RESOLUTION III

Whereas the faculty is committed to providing the best possible education for the students,

Whereas the financial conditions of the state apparently require the freeze of salaries within the university,

Whereas the faculty believes that expenditures for activities such as assessment, the management systems area study, the VSAT program and associated renovations, the University Integrated Data Base and the opening of new facilities during severe budgetary retrenchment compromise the existing educational programs,

Be it hereby resolved that the Academic Council of the University of Missouri-Rolla:

1. Recommends that before any fee increase or salary freeze is instituted expenditures for activities such as assessment, the management systems area study, the VSAT program and associated renovations, the University Integrated Data Base and the opening of new facilities be suspended;



UNIVERSITY OF MISSOURI-ROLLA

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April 11, 1991

Memorandum to: President C. Peter Magrath

From: Academic Council of the University of Missouri-Rolla

Re: Academic Assessment Instruments and Policies

Assessment has been an ongoing activity at UMR for the past four years, with the campus cooperating in every way with the spirit and mandates of the Board of Curators. The campus has allocated approximately \$400,000 in direct expenses to assessment in this period of time, not including associated costs in terms of faculty and departmental time and resources, and in the process has used a full range of assessment instruments and developed appropriate means of tracking students and interpreting the results of the instruments. During this period, a number of curricular changes have been made and new initiatives have begun based on the results of this program. At this time, the campus is completing the first full four year cycle of tracking students through assessment. Consequently, the campus is now finally in a position to measure the results of the changes and initiatives that have already been put into effect and to determine what additional programs should be instituted.

The Academic Council firmly believes that changing to a new assessment policy and to new assessment instruments would significantly impair the results of the past four years and would delay the effective implementation of an effective assessment program, particularly in general education, for an additional four years.

Because of these arguments, the Academic Council of the University of Missouri-Rolla is in accord with the spirit of the resolution on assessment approved by the UMKC Faculty Senate on March 26, 1991. In addition, the Academic Council supports the recommendations concerning general education assessment offered by the IFC on April 4, 1991:

Each campus should individually determine the best time to perform such an assessment, based upon the particular circumstances of that campus.

Each campus should determine the instrument best suited to assess its particular general education requirements.

The Academic Council wishes to assure you and the Board of Curators of our continuing support of the aims of academic assessment; we do, however, wish to make this activity as meaningful as possible to our particular mission and circumstances.

We request that you share this letter with the Board of Curators.



UNIVERSITY OF MISSOURI-ROLLA

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April 11, 1991

Memorandum to: Chancellor Martin C. Jischke

From: Academic Council of the University of Missouri-Rolla

Re: Interim Athletic Director

Faculty have expressed a number of concerns relative to the appointment of an Interim Athletic Director. These concerns include an apparent overload of the Vice Chancellor for Administrative Services, as well as the supervision of tenure track and non-regular faculty by a non-academic administrator. This issue is further clouded by the suggestion that a year or more may pass before a new search for a permanent athletic director is initiated, by uncertainties concerning the charge to the Interim Athletic Director regarding the direction of Intercollegiate Athletics at UMR, confusion over the "faculty status" of the coaching staff, and by concern regarding the role of faculty in shaping the future of the athletic program. Also, there is some sentiment that the precedent of faculty status for the Athletic Director be maintained.

The Academic Council requests that you share your thoughts concerning these concerns at the April 25, 1991 Council meeting. In addition, the Council requests that the faculty play a significant role in the discussion and debate concerning the future of the intercollegiate athletics program at UMR.

cc: Vice Chancellor Neil Smith



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April 11, 1991

Memorandum to: President C. Peter Magrath

From: Academic Council of the University of Missouri-Rolla

Re: Effective Communication in the University

Effective communication is essential to the efficient operation of the University. This necessarily includes communication at all levels -- between faculty and students as well as between administrators and faculty. Everyone in the University family must be cognizant of the importance of good communication and seek to assure that it is maintained.

Several specific instances of a breakdown in effective communication have recently been recognized by faculty at UMR. These include the announcement of the resignation of Chancellor Jischke, the announcement of the appointment of Interim Chancellor Park, and the timely announcement of the UMR Chancellor Screening Committee. In these cases, most of the faculty either heard the news through the press or second-hand from colleagues.

Although the responsibility for delays in these announcements may rest at different levels in the University, you as the President are ultimately responsible and we therefore look to your leadership in assuring that communication be as effective as possible. In particular, we expect that the protocol of the announcement of a new UMR Chancellor some time in the next few months will include a timely and appropriate notification to the faculty, e.g., the use of modern technologies such as electronic mail.

Thank you for your consideration.



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April 11, 1991

Memorandum to: President C. Peter Magrath

From: Academic Council of the University of Missouri-Rolla

Re: Comments on University Budget

The Faculty of the University of Missouri-Rolla is committed to providing the best possible education for our students. In order to accomplish this mission, the campus must become competitive in attracting and retaining the best possible faculty. Unfortunately, due to severe budget limitations, those faculty who represent the future of UMR will continue to leave the University for more attractive opportunities and potential replacements will be even more difficult to recruit. The current financial conditions of the state, which may require the freezing of salaries within the University, as well as freezing support for equipment and expenses, the Library, and other essential services, will certainly exacerbate problems in attracting and retaining these faculty.

A significant burden for alleviating the financial problems of the University continues to be placed on the students through additional fees, including the computer fee, the engineering supplemental fee, and the proposed double-digit fee increase. Increasing this burden without significant increases in student financial aid will likely limit accessibility to UMR's educational experience.

To help assure the continuing quality and accessibility of the educational experience at this campus, the Academic Council of the University of Missouri-Rolla urges the University System and the Board of Curators to continue to explore every possible avenue for improving the resources available to this campus, both in the short run and more importantly in the future. Although curtailment of expenditures for activities such as assessment and the initiation of new programs such as the management systems area study, the VSAT program and associated renovations, the University Integrated Data Base, and the opening of new facilities would assist in the short run, the Council recognizes that these actions would be symbolic but would not provide long-term substantive relief. Continued reallocation of resources within existing programs and services can no longer be regarded as a viable method for dealing with these problems.

Should the pending tax initiative fail, the Academic Council sees only two alternatives for a long range solution to our financial crisis. These are (1) massive student fee increases or (2) elimination of programs. The faculty of the University of Missouri-Rolla is vitally interested in helping to solve these long range problems and expects to be a full partner in any discussion which addresses these questions.

We request that you share this letter with the Board of Curators.